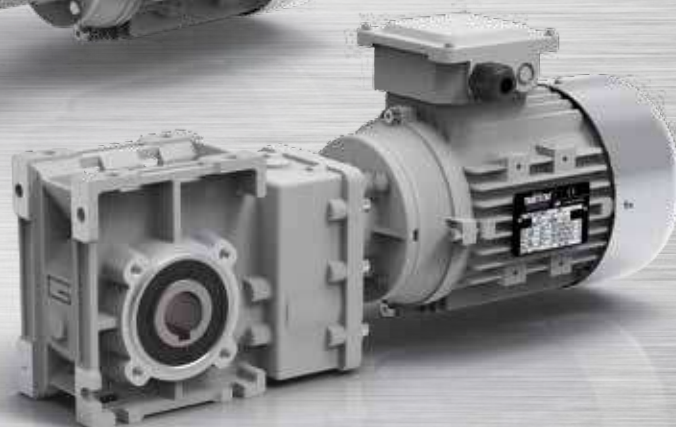
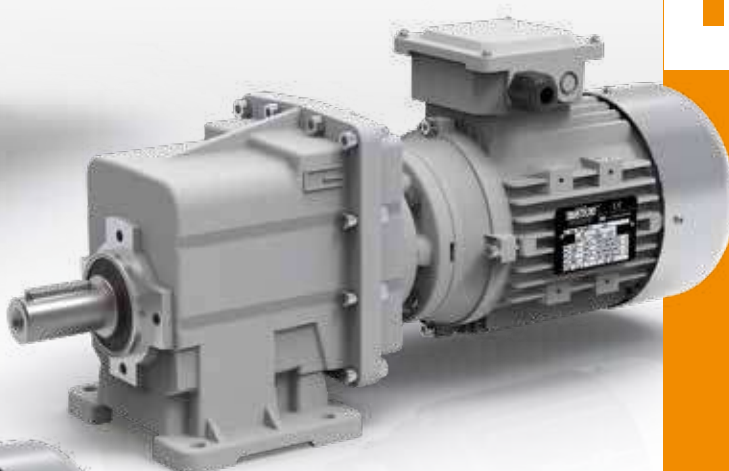


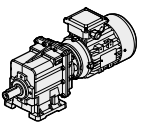
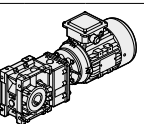
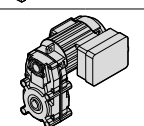
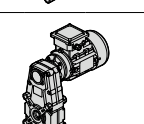
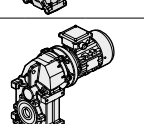
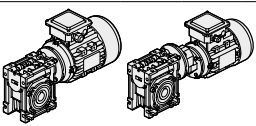
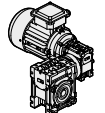
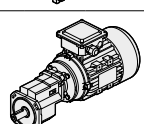
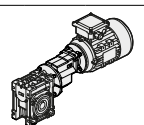

TRANSTECNO®
the modular gearmotor



60Hz

IEC



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Información general	Informação geral	General information
Para una mejor comprensión de los temas y de los datos presentes en el catálogo, proponemos una simbología acompañada por la información necesaria para una selección correcta de los motorreductores.	<i>Para melhor compreender os assuntos e os dados expostos neste catálogo, propomos a simbologia utilizada acompanhando-a das informações de base para atingir uma correta seleção dos motorreductores.</i>	Information in this manual is provided with symbols in order to understand the subject matter and data. These symbols are intended to aid the user in selecting the right gearmotors.
Velocidad de entrada	Velocidade entrada	Input speed
	n_1 [min⁻¹]	
Es la velocidad en la entrada del reductor y está relacionada con el tipo de motor seleccionado.	<i>Representa a velocidade referida no tipo de motorização pré-estabelecida e é aplicada na entrada no redutor.</i>	This is the input speed at the gearbox related to the type of drive unit selected.
Cuando se requieran otras velocidades, contactar con nuestro servicio técnico	<i>Para seleções de velocidades diversas daquelas referidas, consulte nosso Serviço Técnico.</i>	When different speeds are required, contact our Technical Service.
Relación de reducción	Relação de redução	Gear ratio
	i	
Es una magnitud adimensional y está relacionada con el número de dientes de los engranajes internos del reductor. En los reductores sinfín corona se obtiene dividiendo el número de dientes de la corona entre el número de roscas (Z) del tornillo sinfín. Con los datos del catálogo se puede obtener con la siguiente fórmula:	<i>É uma tamanho sem dimensão e é em função do número dos dentes das engrenagens internas no redutor.</i> <i>Nos redutores com rosca sem fim, obtém-se dividindo o número de dente da coroa pelo número dos filetes (Z) da rosca sem fim. Pelos dados do catálogo, obtém-se com a relação:</i>	This value is strictly related to the size and number of teeth gears inside the gearbox. This value is obtained in wormgearboxes by dividing the number of wheel teeth by the number of starts (Z) of the worm. From the data given in the catalogue, the value can be calculated using the following formula:
	$i = \frac{n_1}{n_2}$	
Velocidad de salida	Velocidade na saída	Output speed
	n_2 [min⁻¹]	
Es la velocidad resultante en el eje de salida del reductor y se obtiene de la fórmula anterior:	<i>É a velocidade resultante no eixo de saída do redutor e é retirada da relação precedente:</i>	This is the gearbox output speed calculated using the formula given above:
	$n_2 = \frac{n_1}{i}$	
Par requerido	Torque Solicitado	Requested torque
	Mr_2 [Nm]	
Es el par requerido para la aplicación y es necesario para seleccionar la motorización. Puede ser comunicado por el usuario o calculado a través de los datos de la aplicación (si se conocen).	<i>É o torque solicitado pela aplicação e é indispensável pela seleção de uma motorização. Este pode ser comunicado pelo usuário ou calculado com base nos dados de aplicação (se fornecidos).</i>	This is the torque needed for the application and must be known when selecting a drive system. It can either be provided by the user or calculated according to the application data (if provided).

Par nominal	Torque nominal	Nominal torque
Mn₂ [Nm]		
Es el par transmisible a la salida del reductor, en base a la velocidad en entrada n ₁ y a la relación de reducción i. Se calcula considerando un servicio con una carga continua constante, que corresponde a un factor de servicio igual a 1. Este valor no aparece en el catálogo, pero se puede calcular aproximadamente mediante la relación siguiente entre M ₂ (par de salida) y SF (factor de servicio):	<i>Representa o torque na saída transmissível pelo reductor com base na velocidade na entrada n₁ e na relação de redução i. Este é calculado com base num serviço com carga contínua uniforme correspondente com um fator de serviço igual a 1. Este valor não é indicado no presente catálogo, mas pode ser retirado aproximadamente com a seguinte relação entre M₂ (binário transmitido) e sf (fator de serviço):</i>	This is the output torque that can be transmitted by the gearbox according to input speed n ₁ and gear ratio i. It is calculated based on service with a continuous steady load corresponding to a service factor equal to 1. This value is not given in the catalogue but can be calculated approximately with the following formula between M ₂ (output torque) and sf (service factor):
$Mn_2 = M_2 \cdot sf$		
Par transmitido	Torque Transmitido	Output torque
M₂ [Nm]		
Es el par transmitido en la salida del reductor. Depende de la potencia P ₁ del motor instalado, de las revoluciones de salida n ₂ y del rendimiento dinámico Rd. Se puede calcular mediante la relación:	<i>É o torque transmitido na saída do reductor. Depende da potência P₁ do motor instalado, do número de giros na saída n₂ e do rendimento dinâmico Rd e pode ser calculado com a relação:</i>	This is the gearbox's output torque. It is strictly related to power P ₁ of the motor installed, output rpm n ₂ and dynamic efficiency Rd. It can be calculated with the following formula:
$M_2 = \frac{9550 \cdot P_1 \cdot Rd}{n_2}$	o: or: or:	dónde: onde: where:
	$M_2 = \frac{9550 \cdot P_2}{n_2}$	$P_2 = P_1 \cdot Rd$
Rendimiento	Rendimento	Efficiency
Rd; Rs		
Los cálculos de rendimiento se basan en el rendimiento dinámico Rd de los reductores (el valor óptimo se alcanza en velocidad de marcha después del rodaje).	<i>Os cálculos das prestações foram efetuados com base no rendimento dinâmico Rd dos redutores (valor optimal que se atinge no funcionamento com regime depois da rodagem).</i>	Efficiency is calculated based on dynamic efficiency Rd of the gearboxes (optimal value reached when running at normal speed after the break in period).
En los reductores combinados, el rendimiento total es el resultado del producto de los rendimientos de los dos reductores, considerando que en el segundo reductor el rendimiento se evaluará según la velocidad de entrada reducida que se obtiene dividiendo n ₁ entre la relación de reducción del primer reductor.	<i>Nos reductores combinados, o rendimento global é dado pelo produto dos rendimentos dos dois redutores, considerando, porém, que no segundo reductor deverá ser avaliado com base na velocidade reduzida na entrada obtida dividindo n₁ para a relação i do primeiro reductor.</i>	In combination gearboxes, overall efficiency is obtained from the combined efficiency of the two gearboxes. However, keep in mind that efficiency of the second gearbox should be determined according to the reduced input speed obtained by dividing n ₁ by ratio i of the first gearbox.
Es necesario considerar que en los reductores sinfín corona hay también un rendimiento estático Rs, durante el arranque, que reduce el momento resultante: es importante tomarlo en consideración cuando se seleccionan motorreductores para aplicaciones intermitentes (ej. levantamientos).	<i>É importante considerar que nos redutores com rosca sem fim tem-se um valor de rendimento estático Rs, presente na fase de arranque, que desqualifica sensivelmente o torque resultante; por isso influência de modo determinante a escolha de motorizações destinadas a aplicações intermitentes (ex: elevações).</i>	It is important to remember that wormgearboxes also have static efficiency value Rs present at start-up. This value notably reduces the resulting torque. As a result, it must be taken into consideration when selecting drive systems for intermittent operations (e.g. lifting) as it is a determinant factor.
En la sección CM/CMP están indicados los valores del rendimiento dinámico y estático de los reductores sinfín corona. En los reductores de engranajes CMG y CMB el rendimiento medio es 94%.	<i>O valor dos rendimentos dinâmico e estático dos redutores com rosca sem fim são indicados em seção CM/CMP. Nos redutores de engrenagens CMG, CMB e PU o rendimento médio é de 94%.</i>	Dynamic and static efficiency of wormgearboxes are given into section CM/CMP. On helical gearboxes CMG, CMB and PU the average efficiency is 94%.

Reversibilidad e irreversibilidad

Reversibilidade e irreversibilidade

Reversibility and irreversibility

La consecuencia directa del rendimiento (estático y dinámico) es la reversibilidad del reductor tornillo sin fin, que es la posibilidad de girar el eje de entrada, aplicando una fuerza en el eje de salida.

La incapacidad o dificultad en hacer esta acción determina el grado de reversibilidad (o irreversibilidad) del reductor.

Esta característica, muy significativa del reductor sinfín corona, se ve afectada por numerosos factores, como el ángulo de hélice (es decir, la relación de reducción), la lubricación, la temperatura, el acabado superficial del tornillo, las vibraciones, etc. En las aplicaciones que incluyen traslaciones, es necesario asegurar una reversibilidad alta para evitar que las inercias de las masas en movimiento causen picos de carga inaceptables en los órganos de transmisión.

En las aplicaciones donde se necesita el no retorno de la carga (por ejemplo, levantamientos o cintas transportadoras inclinadas) en ausencia de un freno motor, es necesario seleccionar un reductor con alto grado de irreversibilidad.

Sin embargo debemos mencionar que el no retorno de la carga debe ser totalmente garantizado solamente instalando un motor auto frenante (u otro dispositivo externo)

En la siguiente tabla hay una indicación de los diferentes grados de reversibilidad e irreversibilidad de los reductores sinfín en función de los rendimientos estático R_d y dinámico R_s .

A consequência direta do rendimento (estático e dinâmico) é a reversibilidade do redutor com rosca sem fim que consiste na possibilidade de fazer girar a eixo de entrada através da aplicação de uma torção mais ou menos acentuada na eixo de saída.

A impossibilidade ou dificuldade em efetuar a ação acima descrita determina o grau de reversibilidade (ou irreversibilidade) de um redutor.

Esta característica, muito significativa nos redutores com rosca sem fim, é influenciada por múltiplos fatores como o ângulo da hélice (portanto relação de transmissão), lubrificação, temperatura, acabamento superficial da rosca sem fim, presença de vibrações, etc.

Em aplicações em que estão presentes translações, é necessário garantir uma elevada reversibilidade onde evitar que as inércias das massas em movimento possam determinar pontas de carga inadmissíveis nas peças de transmissão.

Em aplicações na quais é pedido um não retorno da carga (ex: elevações ou fitas transportadoras inclinadas) na ausência de um freio motor é necessário escolher um redutor caracterizado por um elevado grau de irreversibilidade.

De qualquer forma, evidenciamos que a garantia absoluta de não retorno é dada exclusivamente pela instalação de um motor autotravagem ou de um outro dispositivo de travagem externo.

A tabela subjacente indica a título puramente indicativo os vários graus de reversibilidade/irreversibilidade nos redutores com rosca sem fim em função do rendimento dinâmico R_d e estático R_s .

Reversibility of the wormgearbox is the direct consequence of efficiency (static and dynamic). This determines whether or not the input shaft can be rotated by applying a certain torque on the output shaft.

Whether or not this can be done and how difficult it actually is to do determine the degree of reversibility (or irreversibility) of a gearbox.

This feature, quite significant in wormgearboxes, is affected by numerous factors including the helix angle (therefore drive ratio), lubrication, temperature, surface finish of the worm, vibrations, etc...

In applications that include translations, high reversibility must be guaranteed to prevent inertia of the moving parts from creating unacceptable load peaks on the drive parts.

In applications that require non-return of the load (e.g. lifting or inclined conveyor belts) a gearbox with high irreversibility must be chosen when a motor-brake unit is not present.

However, we would like to point out that non-return can be totally assured only by installing a self-braking motor or other external braking device.

The table below is provided for reference purposes only. It contains the various degrees of reversibility/irreversibility of wormgearboxes in relation to dynamic R_d and static R_s efficiency.

R_d	Reversibilidad e irreversibilidad dinámica	Reversibilidade e irreversibilidade dinâmica	Dynamic reversibility and irreversibility
> 0.6	Reversibilidad dinámica	Reversibilidade dinâmica	Dynamic reversibility
0.5 - 0.6	Reversibilidad dinámica incierta	Reversibilidade dinâmica incerta	Uncertain dynamic reversibility
0.4 - 0.5	Adecuada irreversibilidad dinámica	Boa irreversibilidade dinâmica	Good dynamic irreversibility
<0.4	Irreversibilidad dinámica	Irreversibilidade dinâmica	Dynamic irreversibility
R_s	Reversibilidad e irreversibilidad estática	Reversibilidade e irreversibilidade estática	Static reversibility and irreversibility
> 0.55	Reversibilidad estática	Reversibilidade estática	Static reversibility
0.5 - 0.55	Reversibilidad estática incierta	Reversibilidade estática incerta	Uncertain static reversibility
<0.5	Irreversibilidad estática	Irreversibilidade estática	Static irreversibility

Potencia de entrada

Potência de entrada

Input power

$$P_1 \text{ [kW]}$$

Es la potencia del motor aplicada en la entrada al reductor y se refiere a la velocidad n_1 .

Se puede calcular de la siguiente manera:

É a potência do motor aplicada na entrada do redutor e indicada na velocidade n_1 .

Pode ser calculada como a seguir:

This is the power applied by the motor at the gearbox input in reference to speed n_1 . It can be calculated with the following formula:

$$P_1 = \frac{M_2 \cdot n_2}{9550 \cdot R_d}$$

Factor de servicio

Fator de serviço

Service factor

$$sf$$

Es una magnitud adimensional que indica el sobredimensionamiento aplicable a una motorización para garantizar la resistencia a los choques y la durabilidad necesaria.

Las tablas del catálogo ofrecen una amplia selección de motorizaciones con factores de servicio diferentes que pueden satisfacer a la mayoría de las aplicaciones.

Para una correcta interpretación de los valores del factor de servicio sf en las selecciones propuestas, encontrarán en las tablas siguientes los valores aproximados de las clases de carga A, B, C, de las horas de funcionamiento cotidiano y del número de arranques por hora.

Una vez definida la clase de carga de la aplicación, se busca en la tabla el correspondiente valor de sf para elegir la unidad más adecuada.

É uma grandeza adimensional que indica o superdimensionamento a aplicar numa determinada motorização para garantir a resistência aos choques e a duração pedida.

As tabelas do catálogo oferecem uma vasta escolha de motorizações com fatores de serviço diferenciados que podem satisfazer a maior parte das aplicações mais ou menos penosas.

Para uma correta interpretação dos valores do fator de serviço sf indicados ao lado de cada seleção proposta, indicamos nas seguintes tabelas os valores indicativos atribuídos às classes de carga A, B, C e na duração de funcionamento diário h/d e ao número de arranques/hora.

Definindo a classe de carga à qual se refere a aplicação, deve ser procurado na tabela o valor correspondente de sf a utilizar na escolha da motorização ideal.

This value indicates how a certain drive system is to be over-sized in order to assure the requested service and stand up to shocks.

The tables given in the catalogue offer a wide range of drive systems with different service factors able to satisfy most types of applications. To correctly understand service factor values sf given for each item, approximate values for load classes A, B and C along with the number of hours of daily operation h/d and number of start-ups/hours need to be known.

Once the load class required for the application has been determined, locate corresponding value sf to be used when selecting the most suitable drive system.

	Tipo de carga	Tipo de carga	Type of load	fa
A	- Carga uniforme	Carga uniforme	Uniform	$fa \leq 0.3$
B	- Carga con choques moderados	Carga com choques moderado	Moderate shocks	$fa \leq 3$
C	- Carga con choques fuertes	Carga con choques fortes	Heavy shocks	$fa \leq 10$

$$fa = \frac{J_e}{J_m}$$

- J_e (kgm²) momento de inercia de las masas externas, referido al eje del motor.
- J_m (kgm²) momento de inercia del motor. Para valores > 10 se recomienda contactar con el Servicio Técnico

- J_e (kgm²) momento de inércia externo reduzido na árvore motor.
- J_m (kgm²) momento de inércia motor. Se faz > 10 consulte nosso Serviço Técnico.

- J_e (kgm²) moment of reduced external inertia at the drive-shaft
- J_m (kgm²) moment of inertia of motor. If $fa > 10$ call our Technical Service.

Factor de servicio

Fator de serviço

Service factor

A

Carga uniforme / Carga uniforme / Uniform load

sf									
h/d	n. arranques/hora / n. arranques/hora / n. start-up/hour								
	2	4	8	16	32	63	125	250	500
4	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
8	1.0	1.0	1.1	1.1	1.3	1.3	1.3	1.3	1.3
16	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
24	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8

B

Carga con choques moderados / Carga con choques moderados / Moderate shock load

sf									
h/d	n. arranques/hora / n. arranques/hora / n. start-up/hour								
	2	4	8	16	32	63	125	250	500
4	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3
8	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
16	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
24	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2

C

Carga con choques fuertes / Carga con choques fortes / Heavy shock load

sf									
h/d	n. arranques/hora / n. arranques/hora / n. start-up/hour								
	2	4	8	16	32	63	125	250	500
4	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5
8	1.5	1.5	1.5	1.5	1.8	1.8	1.8	1.8	1.8
16	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.2
24	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5

Como establecer el sf:

Cinta transportadora atribuible a la clase de carga **B (carga con choques moderados)**, previsto para una hora de funcionamiento diaria (h/d) **16** horas y con **8** arranques/hora

De la tabla obtenemos: **sf = 1.5**

Como calcular o sf:

Fita transportadora atribuível à classe de carga **B (carga con choques moderados)** e prevista para uma duração de funcionamento diária (h/d) de **16** horas e com **8** arranques/hora.

Pela tabela indicamos **sf = 1.5**

How to establish sf:

Conveyor belt assigned to load class **B (moderate shock load)**, to be run **16** hours a day (h/d) with **8** start-ups/hour.

The following value is obtained from the table **sf = 1.5**

A

Tornillos de Arquímedes para materiales ligeros, ventiladores, líneas de montaje, cintas transportadoras para materiales ligeros, pequeños agitadores, elevadores, máquinas limpiadoras, máquinas llenadoras, máquinas comprobadoras, cintas transportadoras.

A

Rosca transportadora para materiais leves, ventiladores, linhas de montagem, correias transportadoras para materiais leves, pequenos misturadores, elevadores, máquinas de limpeza, máquinas de controle.

A

Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.

B

Dispositivos de enrollado, alimentadores de las máquinas para la madera, montacargas, equilibradores, roscadoras, agitadores medios y mezcladores, cintas transportadoras para materiales pesados, cabrestantes, puertas corredizas, raspadores de abono, máquinas empaquetadoras, hormigoneras, mecanismos para el movimiento de las grúas, fresadoras, plegadoras, bombas de engranajes.

B

Dispositivos de elevação, alimentadores de máquinas para trabalhar madeira, montacargas, balanceadores, tornos, misturadores médios, correias transportadoras para materiais pesados, guinchos, portas de correr, raspadores de fertilizantes, máquinas de embalagem, betoneiras, mecanismos de guindaste, fresas, máquinas de dobrar, engrenagem, bombas.

B

Winding devices, woodworking machine feeders, goods lifts, balancers, threading machines, medium mixers, conveyor belts for heavy materials, winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.

C

Agitadores para materiales pesados, cizallas, prensas, centrifugadoras, soportes rotativos, cabrestantes y elevadores para materiales pesados, tornos para la rectificación, molinos de piedras, elevadores de cangilones, perforadoras, moledores a percusión, prensas de excéntrica, plegadoras, mesas giratorias, pulidoras, vibradores, cortadoras.

C

Misturadores para materiais pesados, tesouras, prensas, centrífugas, suporte rotativo, guinchos e elevadores para materiais pesados, moedores, elevadores de caçamba, máquinas de perfuração, prensas, máquinas para dobra, plataformas giratórias, máquinas para perfuração vibradores, trituradores.

C

Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.

Carga radial

Carga radial

Radial load

R; R₂ [N]

La aplicación en el eje de salida del reductor de piñones, poleas, etc. determina fuerzas radiales que es necesario considerar para evitar excesivo estrés y el riesgo de daños del reductor.

A aplicação na eixo de saída do reductor de pinhão, roldanas, etc. determina forças radiais que devem necessariamente ser consideradas para evitar solicitações excessivas com o risco de danos do mesmo.

Pinions, pulleys, etc applied on the output shaft of the gearboxes create radial forces that must be taken into consideration to avoid excessive stress risking damage to the gearbox itself.

El cálculo de la carga radial externa R que actúa sobre el eje del reductor se puede calcular de la siguiente manera:

O cálculo da carga radial externa R agente no eixo do reductor pode ser determinado como segue:

External radial load R that acts on the gearbox shaft can be calculated as follows:

$$R = \frac{2000 \cdot M_2 \cdot k_r}{d} \leq R_2$$

donde:

d [mm] Diámetro primitivo del piñón o polea

k_r coeficiente con relación al tipo de transmisión:

k_r = 1.4 transmisión por cadena

k_r = 1.1 transmisión por cadena

k_r = 1.5 - 2.5 polea para correa trapecial

onde:

d [mm] diâmetro primitivo do pinhão ou da roldana

k_r coeficiente referido ao tipo de transmissão:

k_r = 1.4 roda para corrente

k_r = 1.1 engrenagem

k_r = 1.5 - 2.5 roldana para cinta em V

where:

d [mm] diameter of the pinion or pulley

k_r coefficient in relation to type of transmission:

k_r = 1.4 sprocket wheel

k_r = 1.1 gear

k_r = 1.5 - 2.5 pulley for V belts

Señalamos que los valores R₂ son válidos para cargas aplicadas a la mitad del eje de salida, entonces la comparación debe hacerse en las mismas condiciones.

Señalamos que los valores R₂ son válidos para cargas aplicadas a la mitad del eje de salida, entonces la comparación debe hacerse en las mismas condiciones.

Keep in mind that values R₂ refer to loads that act on the center-line of the output shaft (considering the shaft protrudes). As a result, the value should be compared under the same conditions.

Carga axial

Carga axial

Axial load

A; A₂ [N]

A veces, junto con la carga radial también puede estar presente una fuerza A que actúa axialmente en el eje de salida; en este caso tener en cuenta que la carga axial admisible A₂ en el eje es:

Às vezes, juntamente à carga axial, pode estar presente também a força A que age axialmente na árvore de saída; neste caso leve em conta que a carga axial admissível A₂ na árvore é a considerar:

At times, along with the radial load, force A may be present that acts axially on the output shaft. In this case, keep in mind allowable axial load A₂ that can be applied on the shaft is:

$$A_2 = R_2 \cdot 0.2$$

Si el valor de la carga axial A en el eje resulta superior a A₂, consultar con nuestro servicio técnico.

No caso em que o valor da carga axial A agente na árvore resulte superior a A₂ consulte nosso Serviço Técnico.

If axial load A that acts on the shaft is greater than A₂, contact our Technical Service.

Seleccionando el motorreductor

Escolha dos motoredutores

Selecting the gearmotors

Para seleccionar el motorreductor requerido realizar el siguiente procedimiento:

1. Determinar el factor de servicio s_f para la aplicación deseada haciendo referencia a los gráficos dados en la página A6. Esto está hecho considerando la clase de carga, la operación horas/días y el número de puesta en marcha/hora.
2. Si la potencia de salida del motor requerido P es conocida, ir al punto 3); si el torque de salida requerido M es conocido, determine la salida del motor P usando las siguientes fórmulas:

Para a escolha de um motoredutor é necessário seguir procedimento indicado.

1. Para a aplicação desejada, retire o fator de serviço s_f das tabelas na pág. A6 com base na classe de carga, nas horas de funcionamento diário e no número de arranques horários.
2. Se conhece-se a potência do motor P [kW] pedida, passe ao ponto 3); nota-se em na saída o torque M solicitado, é necessário calcular a potência motor P com as fórmulas:

To select the required gearmotor, perform the procedure below:

1. Determine the service factor s_f for the desired application by referring to the charts given on page A6. This is to be done by considering the class of load, the operational hours/day and the number of start-ups/ hour.
2. If the required motor power output P is known, go to item 3); if the required output torque M is known, determine motor output P by using the following formulas:

$$P = \frac{M \cdot n_2}{9550 \cdot Rd}$$

Motor reductor
Motoredutores
Gearmotor

donde Rd es para la eficiencia dinámica (indicada en la página G7) y n_2 indica la salida requerida RPM del motorreductor.

onde Rd é o rendimento dinâmico (indicado na pág. G7) e n_2 o número de giros pedidos na saída do motoredutor.

where Rd stands for the dynamic efficiency (indicated on page G7) and n_2 indicates the required output rpm of the gearmotor.

3. Use la gráfica de especificación para buscar la unidad de potencia donde P_1 es mayor que o igual a P con una velocidad n_2/n_{2max} que se aproxima al valor deseado. Elija una unidad de potencia donde el factor de servicio indicado s_f es igual o mayor que la unidad calculada en el punto 1).

3. Nas tabelas dos dados técnicos procure a motorização em que seja P_1 maior ou igual a P e com referência a uma velocidade n_2/n_{2max} próxima àquela desejada, escolha a motorização em que o fator de serviço s_f indicado resulte igual ou superior aquele retirado no ponto 1).

3. Use the specification chart to search for the power unit where P_1 is greater than or equal to P with a speed n_2/n_{2max} that approximates the desired one. Choose a power unit where the indicated service factor s_f is equal to or greater than that calculated at point 1).

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	s_f	i		
---------------	-------------------------------	---------------	-------	-----	---	---

0.18

63B4 (1750 min ⁻¹)	27.7	58	2.1	63.22	CMG013	B5
	23.3	69	1.7	75.08		B5
	19.6	82	1.5	89.17		B5
	15.5	104	1.1	113.05		B5
	13	124	1	134.27		

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	s_f	i		
---------------	-------------------------------	---------------	-------	-----	---	---

0.18

63B4 (1750 min ⁻¹)	117	12	3.8	15	CM040	B5/B14
	88	15	2.6	20		B5/B14
	70	18	2.1	25		B5/B14
	58	21	2.3	30		B5/B14
	44	26	1.6	40		B5/B14
	35	29	1.3	50		B5/B14
	29	34	1.1	60		B5/B14

Ejemplo: / Exemplo: / Example:

Aplicación / Aplicação / Application:

Cinta transportadora / Esteira transportadora / Conveyor belt

P : 0.18 kW
 s_f : 1.5
 n_2 : 23 min⁻¹

Motorización seleccionada / Motorização escolhida / Power unit selected:

CMG013 $i = 75.08$, $P_1 = 0.18$ kW, $s_f = 1.7$

Ejemplo: / Exemplo: / Example:

Aplicación / Aplicação / Application:

Cinta transportadora / Esteira transportadora / Conveyor belt

P : 0.17 kW
 s_f : 1.5
 n_2 : 45 min⁻¹

Motorización seleccionada / Motorização escolhida / Power unit selected:

CM040 $i = 40$, $P_1 = 0.18$ kW, $s_f = 1.6$

Lubricación

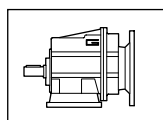
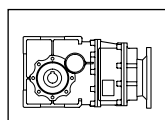
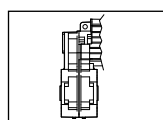
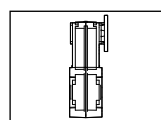
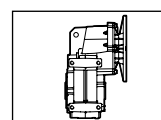
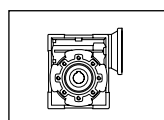
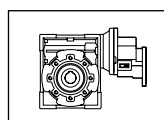
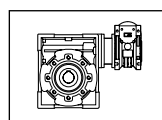
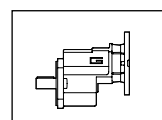
Los reductores de las serie CMG, CMB, KFT105, FT, ATS, CM, CMM y de la PU se suministran con lubricante sintético viscosidad 320 de larga duración y no requieren mantenimiento.

Lubrificação

Os redutores da série CMG, CMB, KFT105, FT, ATS, CM, CMM e PU são fornecidos completos de lubrificante sintético de viscosidade 320 com longa duração, portanto não necessitam de manutenção.

Lubrication

All unit sizes of CMG, CMB, KFT105, FT, ATS, CM, CMP, CMM and PU series are complete with a long life synthetic lubricant, viscosity 320 and do not require maintenance.

**CMG****CMB****KFT105****FT****ATS****CM****CMP****CMM****PU**

SHELL	AGIP	KLUBER	CASTROL	ESSO	MOBIL
Shell Omala S4 WE320	Tellium VSF320	Klubersynth GH 6 320	Alphasyn PG320	S320	Mobil Glygoyle HE 320

En las secciones del catálogo se encuentran las tablas con las cantidades aproximadas de aceite contenido/necesario.

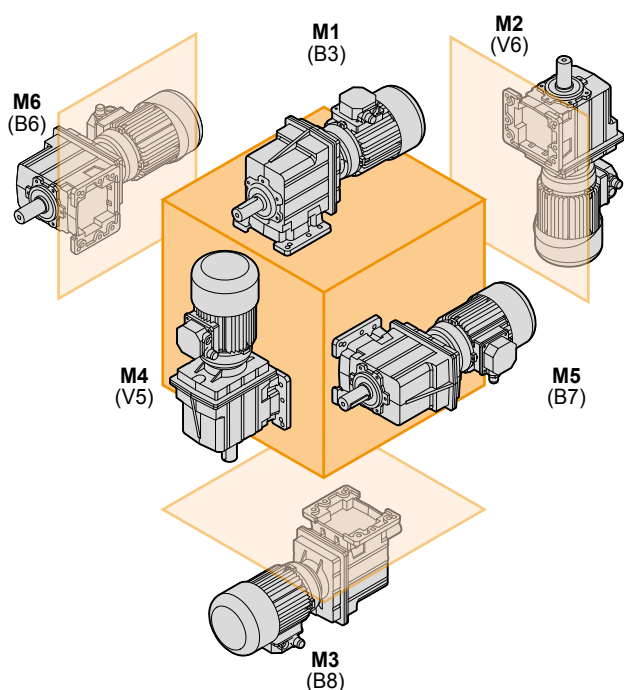
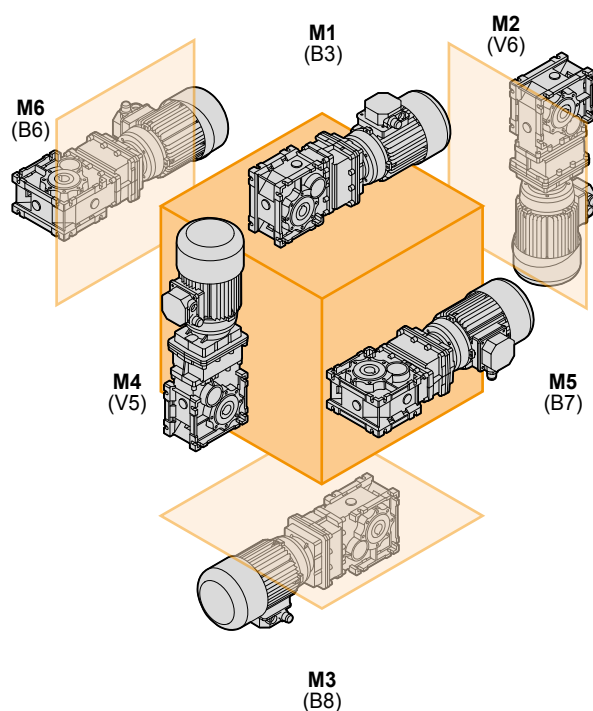
En el pedido es necesario indicar siempre la posición de montaje.

Nas seções específicas são indicadas as tabelas com as quantidades indicativas de lubrificante contidas e/ou a introduzir.

Na fase de pedido é necessário especificar sempre a posição de montagem desejada.

The tables contain the approximate amount of lubricant held and/or to be put in.

Always specify the desired installation position at the time of order.

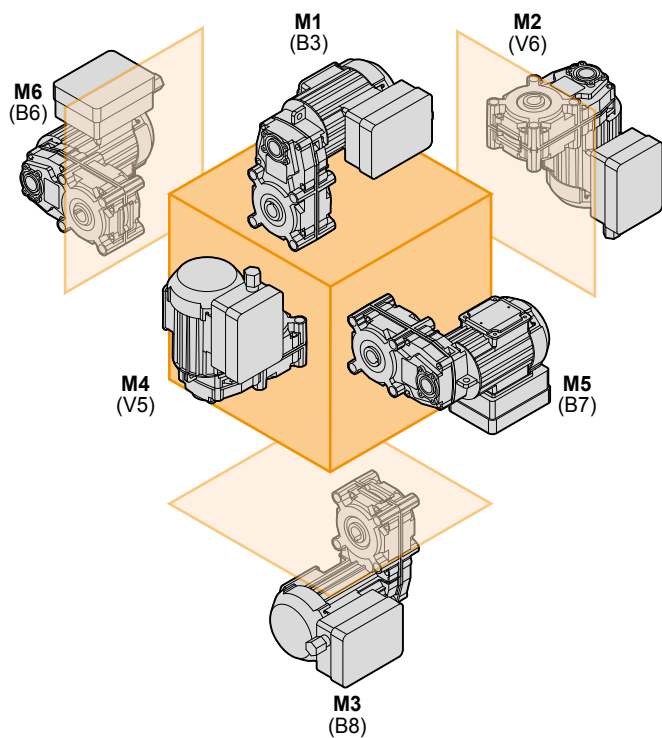
Posición de Montaje**Posição de montagem****Mounting positions****CMG****CMB**

Posición de Montaje

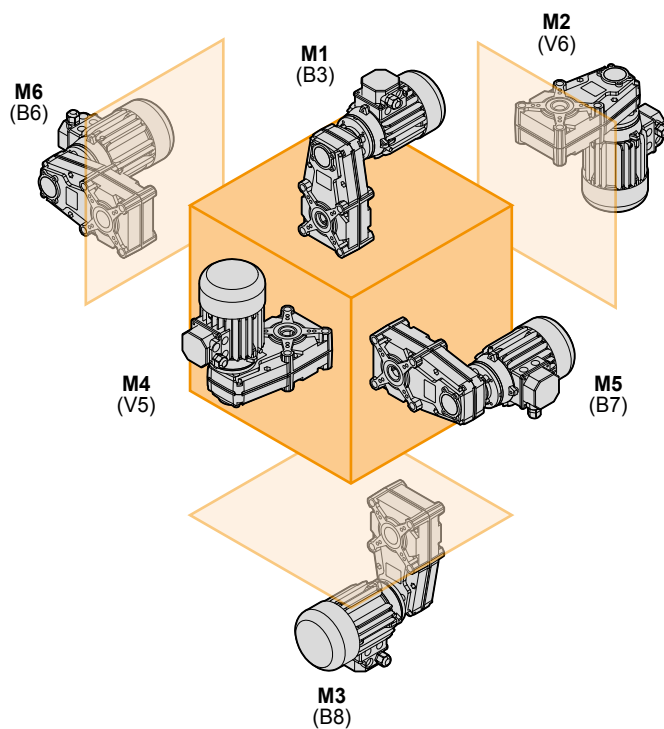
Posição de montagem

Mounting positions

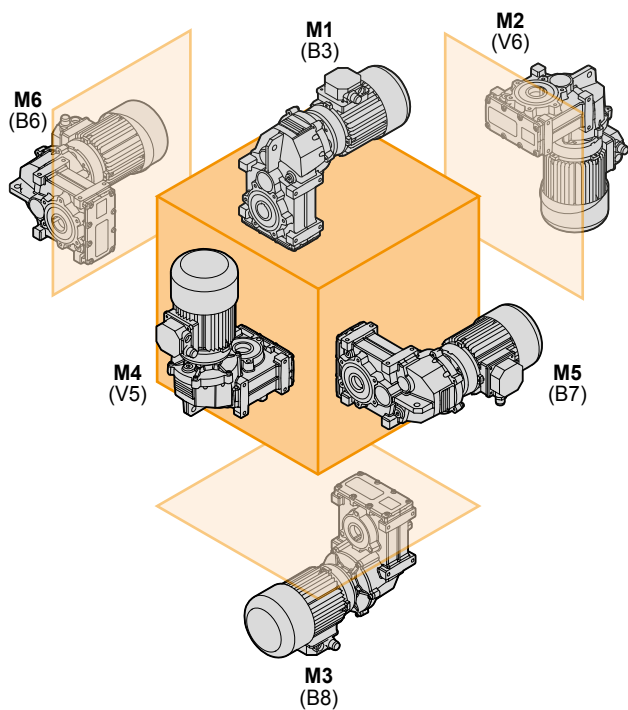
KFT 105



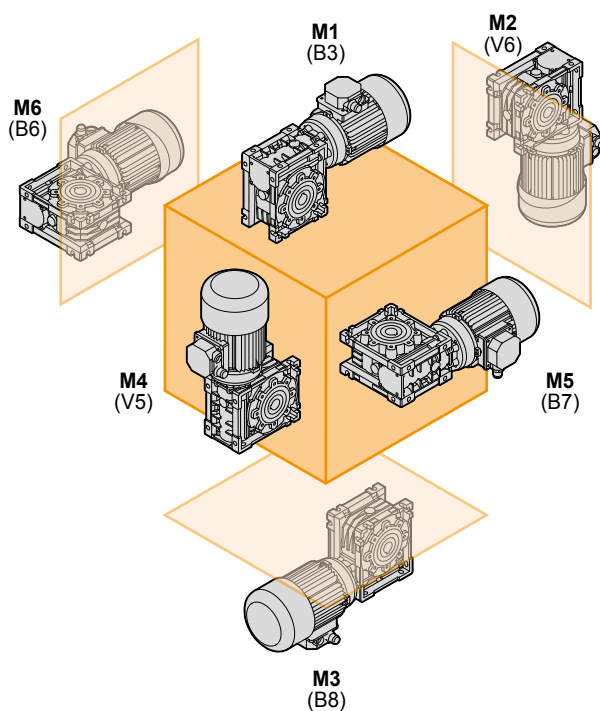
FT



ATS



CM



Temperatura de operación

Temperatura de trabalho

Operating temperature

La temperatura ambiente afecta las especificaciones de los reductores.

A temperatura ambiental influi nas especificações de redutores e variadores.

The ambient temperature affects specifications of gearboxes.

Gama de temperatura estándar / Campo de temperatura padrão / Standard temperature range

CMG	-35°C / +50°C
CMB	-35°C / +50°C
KFT105	-35°C / +50°C
FT	-35°C / +50°C
ATS	-35°C / +50°C
CM026 - CM050	-25°C / +50°C
CM063 - CM130	-35°C / +50°C
CMP	-35°C / +50°C
PU	-35°C / +50°C

Gammas de temperaturas especiais / Campos de temperatura especiais / Special temperature range

	<-15°C	-35°C/-25°C	<-35°C	>+50°C
CMG			usar sellos de aceite de silicona (VMQ) use vedante rotacional de silicone (VMQ) use silicone (VMQ) oil seals	usar sellos de aceite de Viton (FPM) use vedante rotacional em Viton (FPM) use Viton (FPM) oil seals
CMB				
KFT105				
FT				
ATS				
CM026 - CM050		sustituir el sello de aceite con NBR substituir vedante rotacional da entrada com NBR replace input oil seal with NBR	usar lubricantes para bajas temperaturas use lubrificante para baixas temperaturas use low temperature lubricant	usar lubricante para altas temperaturas use lubrificante para altas temperaturas use high temperature lubricant
CM063 - CM110				
CM130	reducir las cargas radiales en salida reduzir as cargas radiais na saída reduce radial loads in halph			
CMP				
PU				

Si la temperatura es <0°:

- verificar que el motor sea idóneo para trabajar a bajas temperaturas;
- verificar que el motor pueda proveer mayor par de arranque a causa del aumento de la viscosidad del lubricante;
- para una lubricación óptima accionar sin carga algunos minutos;

Para temperaturas <0°C refira-se às seguintes notas:

- verifique se o motor está apto ao funcionamento com baixa temperatura;
- assegure-se que o motor possa fornecer maior torque de arranque por causa do aumento de viscosidade do lubrificante;
- proceda alguns minutos de funcionamento a vácuo para garantir a optimal lubrificação;

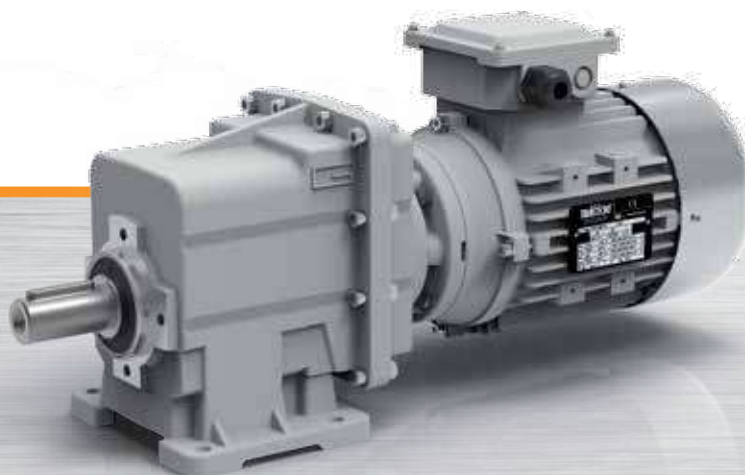
For temperature <0°C refer to the following notes:

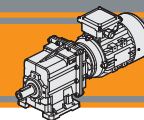
- check if the motor is suitable for low temperature;
- due to the high viscosity of the lubricant, check if the motor can supply high starting torque;
- let the group run for a few minutes without load to guarantee good lubrication;

Instalación y controles	Instalação e verificações	Installation and inspection
Al momento de la instalación del equipo reductor es recomendable verificar que: - Los datos en la placa correspondan al producto pedido; - Las superficies de acoplamiento y los ejes sean limpios y sin abolladuras; - Las superficies donde se instala el reductor sean planas y bastante rígidas; - El eje de la máquina operadora y del reductor sean correctamente alineados; - Se hayan instalados los limitadores de par si hay probabilidad de golpes o bloqueo durante el funcionamiento; - Las partes rotativas de las máquinas lleven las protecciones de seguridad necesarias; - Para instalaciones al exterior, sean presentes adecuadas protecciones contra la exposición a los agentes atmosféricos; - El ambiente de trabajo no sea expuesto a agentes corrosivos (a menos que no haya sido comunicado en el pedido, a fin de preparar el reductor para este uso); - Los piñones y poleas sean correctamente ensamblados en el eje de salida o de entrada del reductor, para evitar cargas radiales y/o axiales superiores a las admitidas; - Todos los acoplamientos sean tratados con adecuado producto anticorrosivo para evitar oxidaciones; - Todos los tornillos de sujeción estén bien apretados; - Verificar la cantidad de lubricante dependiendo de la posición de montaje en todos los motorreductores CM 130.	Na fase de instalação do redutor ou motor variador é importante verificar se: <i>os dados referidos na placa de identificação correspondem ao produto que foi pedido;</i> <i>as superfícies de acoplamento e às eixos estão cuidadosamente limpas e sem machucaduras;</i> <i>as superfícies nas quais será instalado o redutor estão perfeitamente planas e suficientemente rígidas;</i> <i>a eixo da máquina e aquela do redutor estão corretamente alinhadas;</i> <i>foram instalados sistemas de limitação do torque se forem previstos choques ou bloqueios da máquina durante o funcionamento;</i> <i>foram colocadas as proteções necessárias para antinfortunisticas nas peças rotativas;</i> <i>foram criadas as coberturas necessárias para a proteção dos agentes atmosféricos se a instalação é efetuada à área aberta e está sujeita às intempéries;</i> <i>o ambiente de trabalho não é corrosivo (a menos que esta especificação não tenha sido declarada no pedido com o fim de predispor o redutor à esta utilização);</i> <i>os eventuais pinhões ou roldanas montados na eixo de saída ou entrada do redutor estão contraídos corretamente de modo tal a não gerar cargas radiais e/ou superiores àquelas admissíveis;</i> <i>em todos os acoplamentos foi aplicado uma proteção anti-oxidante adequada para prevenir eventuais oxidações por contato;</i> <i>todos os parafusos de fixação estão fechados corretamente;</i> <i>para todos os variadores e os redutores de grandeza CMG 05, CMB 1103, CM 130 e CM150 a correta quantidade de lubrificante em função da posição de montagem.</i>	While installing the gearbox, always make sure that: - the specifications stamped on the rating plate match those indicated for the unit actually ordered; - the mating surfaces and the shafts are thoroughly clean and free of dents; - the surfaces where the gearbox are to be mounted on are flat and strong enough; - the machine drive shaft and the gearbox shaft are perfectly aligned; - the required torque limiters have been installed if the machine is likely to produce shocks or blockages during operation; - the rotary parts have been provided with the required safety guards; - adequate weatherproof covering has been provided if the machine is to be installed outdoor; - the working environment is not exposed to corrosive agents (unless this has been indicated while placing the order so that the gearbox can be adequately set up); - the pinions or pulleys on the gearbox input/output shafts are properly fitted in order not to produce radial and/or axial loads that exceed the maximum allowable limits; - all the couplings have been treated with adequate rust preventative in order to avoid oxidation provoked by contact; - all the mounting screws have been securely tightened; - check the lubricant quantity depending on the mounting position on all gearboxes CM 130.w

Aplicaciones críticas	Aplicações críticas	Critical applications
En estos casos consultar con nuestro Servicio Técnico - uso como multiplicador; - uso como montacargas; - uso en posiciones no contempladas en el catálogo; - uso en ambientes con presión diferente de la atmosférica; - uso en ambiente con temperaturas <-35°C or >+50°C	En estos casos consultar con nuestro Servicio Técnico <i>utilização como multiplicador;</i> <i>utilização como guincho de elevação;</i> <i>utilização em posições não previstas no catálogo;</i> <i>utilização em ambiente com pressão diversas daquela atmosférica;</i> <i>utilização em ambiente com temperaturas <-35°C o >+50°C</i>	In these cases please contact the Technical Service - used to increase speed ; - used as a hoist; - used in mounting positions not shown in the catalogue; - use in environment pressure other than atmospheric pressure; - use in places with temperature <-35°C or >+50°C

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors



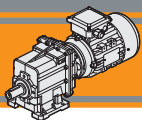


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CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

Características técnicas

Los motorreductores a engranajes cilíndricos de la serie CMG son caracterizados por un elevado grado de modularidad: partiendo de un cuerpo base, es posible configurarlo de acuerdo a las exigencias, con brida o base.

Características comunes para toda la serie:

- Cuerpo y bridas de entrada en inyección de aluminio;
- Bridas de salida y base en hierro vaciado;
- Engranajes siempre rectificadas;
- Lubricación permanente con aceite sintético.

Características técnicas

Os redutores da série CMG são caracterizados por um elevado grau de modularidade: partindo de um corpo de base, é possível configurá-lo de acordo com as exigências, com flange ou pé.

Características comuns a toda a série:

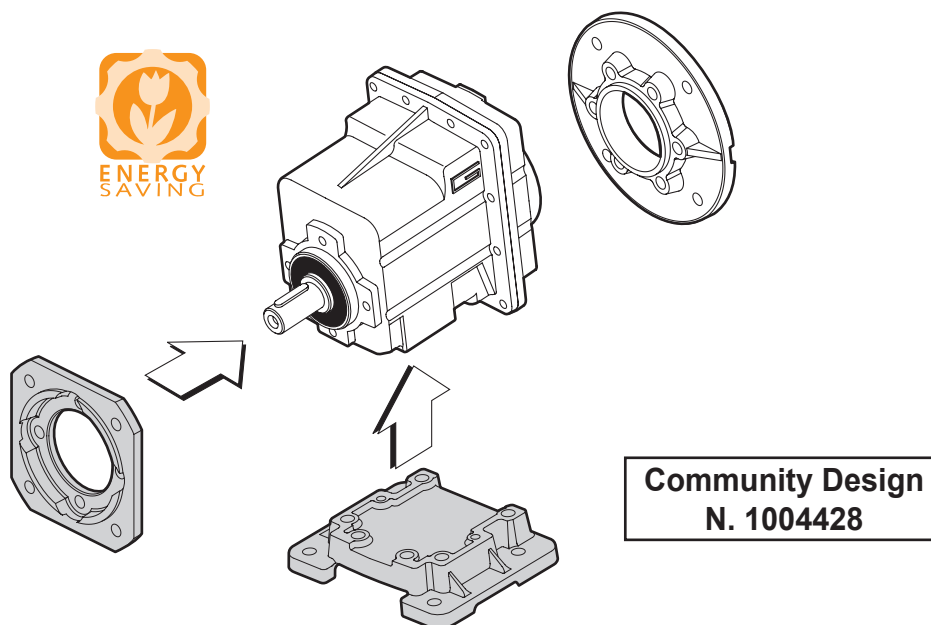
- Carcaça e flange PAM em pressofusão de alumínio para os tamanhos;
- Pé e flange de saída em ferro fundido;
- Engrenagens sempre retificadas;
- Lubrificação permanente com óleo sintético.

Technical features

The high degree of modularity is a design feature of CMG helical in-line gearmotors range. It is possible to set up the version required using flanges or feet.

The main features of CMG range are:

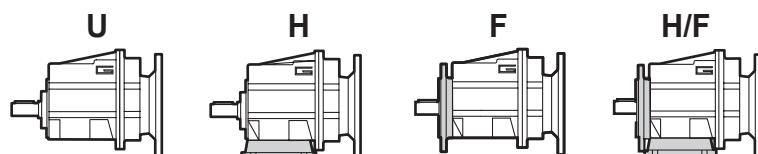
- Die-cast aluminum housings and input flanges for sizes 00, 01, 02, 03 and 04;
- Cast iron feet and output flanges;
- Ground-hardened helical gears;
- Permanent synthetic oil long-life lubrication.



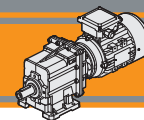
Clasificación

Designação

Classification



REDUCTOR / REDUTOR / GEARBOX							
CMG	01	2	H65	9.81	D20	71	B14
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Ø Eje de salida Ø Eixo saída Ø Output shaft	IEC 	Forma constructiva Forma construtiva Version
CMG	00 01 02 03 04	2 3	U... H... F... H.../F...	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	56.. — 112..	B5 B14



Clasificación

Designação

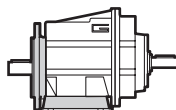
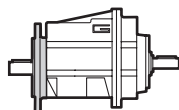
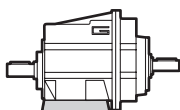
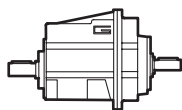
Classification

U

H

F

H/F



REDUCTOR / REDUTOR / GEARBOX

CMGIS	01	2	U	9.81	D20
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Ø Eje de salida Ø Eixo saída Ø Output shaft
CMGIS	01 02 03 04	2 3	U... H... F... H.../F...	Veja tabelas Véase tablas see tables	Veja tabelas Véase tablas see tables

MOTOR / MOTOR / MOTOR

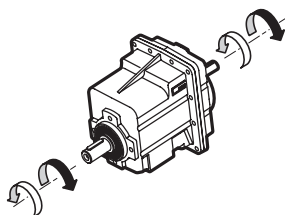
0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Veja tabelas Véase tablas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	T1 (Std) T4 T2 T3

Sentidos de rotación

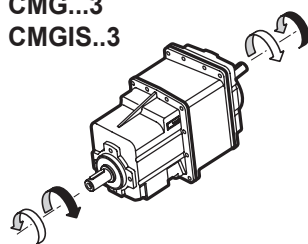
Sentidos de rotação

Direction of rotation

CMG...2
CMGIS..2



CMG...3
CMGIS..3

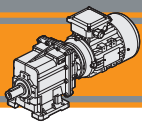


Nomenclatura

Simbologia

Legend

n_1 [rpm]	Velocidad de entrada / Velocidade na entrada / Input speed
n_2 [rpm]	Velocidad de salida / Velocidade na saída / Output speed
i	Relación de reducción / Relação de redução / Ratio
P_1 [kW]	Potencia en la entrada / Potência da entrada / Input power
M_2 [Nm]	Par en la salida en función de P_1 / Torque na saída em função de P_1 / Output torque referred to P_1
P_{n1} [kW]	Potencia nominal en la entrada / Potência nominal na entrada / Nominal input power
M_{n2} [Nm]	Par nominal en la salida en función de P_{n1} / Torque nominal na saída em função de P_{n1} / Nominal output torque referred to P_{n1}
sf	Factor de servicio / Fator de serviço / Service factor
R_2 [N]	Carga radial admisible en la salida / Carga radial admissível na saída / Maximum output radial load
A_2 [N]	Carga axial admisible en la salida / Carga axial admissível na saída / Maximum output axial load



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

Lubricación

Todos los motorreductores son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

Lubrificação

Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção

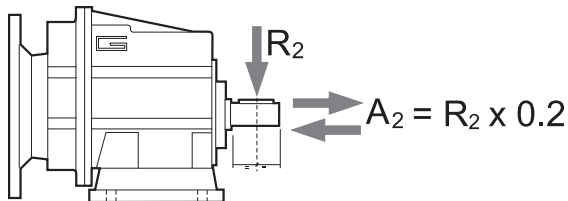
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting position; for this reason they can be installed in any assembly position and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads

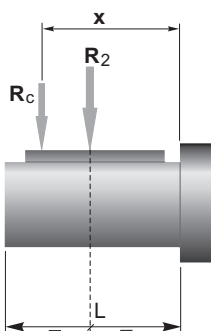


n_2 [min ⁻¹]	R_2 [N]				
	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04
700	416	764	1529	1987	2379
600	437	805	1609	2092	2504
500	465	855	1710	2223	2661
400	501	921	1842	2395	2866
250	586	1077	2154	2801	3353
180	653	1323	2554	3321	3897
150	748	1406	2714	3529	4244
120	806	1631	3467	3801	4572
100	958	1842	3684	4507	5234
80	1032	1984	3969	5042	5991
60	1136	2184	4368	5549	6594
40	1300	2500	5000	6500	8000
10	1300	2500	5000	6500	8000

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

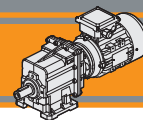


	CMG 00	CMG 01	CMG 02	CMG 03	CMG 04
a	73	104	117	132	150
b	53	84	92	102	115
R_{2MAX}	1300	2500	5000	6500	8000

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table

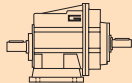


Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CMGIS 002

348	40	1.5	5.03
287	40	1.3	6.10
234	40	1.0	7.49
195	50	1.1	8.99
172	50	0.94	10.16
145	50	0.79	12.07
131	70	1.00	13.40
116	70	0.88	15.14
96	70	0.74	18.17
81	70	0.62	21.58
74	70	0.57	23.51
70	70	0.53	25.10
65	70	0.49	27.08
54	70	0.41	32.49
42	70	0.32	42.04
39	70	0.30	44.89
36	70	0.27	48.86
32	70	0.24	55.10

IEC Motores aplicables
 IEC Motores aplicáveis
 IEC Motor adapters

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
			*
			*
			*
			*
			*
			*
		*	*
		*	*
		*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



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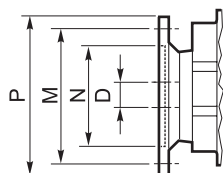


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas B10 a la B15.

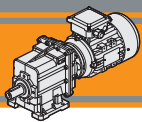
Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas B10 a pag. B15.

Before selecting any gearbox, please read the performance values shown in the tables on page B10 to B15.



IEC Dimensión / IEC Dimensões / IEC Dimensions

	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14
N	80	50	95	60	110	70	130	80
M	100	65	115	75	130	85	165	100
P	120	80	140	90	160	105	200	120
D	9		11		14		19	



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

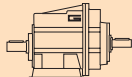
60 Hz

Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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IEC Motores aplicables
IEC Motores aplicáveis
IEC Motor adapters

CMGIS 012

458	60	3.0	3.82
378	60	2.5	4.63
308	60	2.0	5.69
227	80	2.0	7.72
191	80	1.7	9.17
178	80	1.6	9.81
152	100	1.7	11.50
147	100	1.6	11.90
127	120	1.7	13.80
120	120	1.6	14.62
98	120	1.3	17.86
92	120	1.2	19.07
88	120	1.2	19.83
74	120	1.0	23.56
59	120	0.78	29.56
49	120	0.65	35.47
38	120	0.50	45.89
36	120	0.47	49.00
33	120	0.43	53.33
29	120	0.38	60.15

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
				*
				*
				*
				*
				*
			*	*
			*	*
			*	*
			*	*

CMGIS 013

28	120	0.37	63.22
23	120	0.31	75.08
20	120	0.26	89.17
15	120	0.21	113.05
13	120	0.17	134.27
10	120	0.13	173.72
8.7	120	0.12	202.16
6.7	120	0.09	261.57
5.8	120	0.08	304.00
4.4	120	0.06	393.33
3.9	120	0.05	443.59

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
			*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



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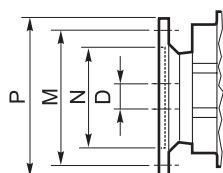


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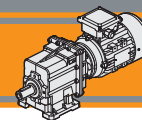
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Before selecting any gearbox, please read the performance values shown in the tables on page B10 to B15.



IEC Dimension / IEC Dimensões / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
D	9		11		14		19		24	

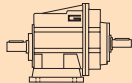


Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CMGIS 022

479	100	5.2	3.66
395	100	4.3	4.43
321	100	3.5	5.45
237	120	3.1	7.39
199	120	2.6	8.78
176	120	2.3	9.93
159	200	3.5	11.01
145	200	3.2	12.05
132	160	2.3	13.21
118	200	2.6	14.81
102	130	1.5	17.10
87	200	1.9	20.08
73	200	1.6	23.85
58	200	1.3	29.93
49	200	1.1	35.91
38	200	0.82	46.46
35	200	0.77	49.61
32	200	0.71	54.00
29	200	0.63	60.90

IEC Motores aplicables
IEC Motores aplicáveis
IEC Motor adapters

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
				*
				*
				*
				*
			*	*

CMGIS 023

27	200	0.61	64.01
23	200	0.51	76.02
19	200	0.43	90.29
15	200	0.34	114.46
13	200	0.29	135.95
9.9	200	0.22	175.89
8.5	200	0.19	204.69
6.6	200	0.15	264.84
5.7	200	0.13	307.80
4.4	200	0.10	398.25
3.9	200	0.09	449.14

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
			*	*
			*	*
			*	*
			*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



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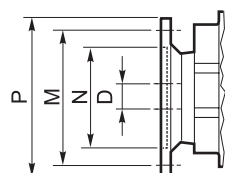


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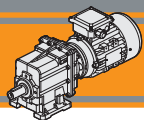
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IEC Dimension / IEC Dimensões / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
D	9		11		14		19		24	



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

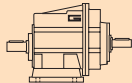
60 Hz

Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters				
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CMGIS 032

468	150	7.7	3.74
389	150	6.4	4.50
319	150	5.2	5.48
277	180	5.4	6.31
221	180	4.3	7.93
193	180	3.8	9.08
160	180	3.1	10.93
139	250	3.8	12.60
132	250	3.6	13.30
114	280	3.5	15.30
96	240	2.5	18.21
91	280	2.8	19.24
83	240	2.2	21.15
70	300	2.3	24.99
57	300	1.9	30.57
51	300	1.7	34.20
45	300	1.5	38.63
40	300	1.3	44.18
34	300	1.1	51.30
29	300	0.90	60.80

71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				*
B				*
B				*
B				*
B				*
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B		*	*	*
B		*	*	*

CMGIS 033

24	300	0.80	72.83
18	300	0.60	97.45
15	300	0.51	115.74
12	300	0.42	140.81
10	300	0.34	174.26
7.8	300	0.26	225.47
6.7	300	0.22	262.05
5.4	300	0.18	325.79
4.6	300	0.15	378.64
4.1	300	0.14	427.03

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
				*
			*	*
			*	*
			*	*
			*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*
		*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico



* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

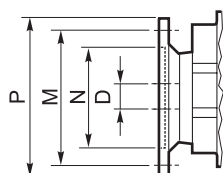


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

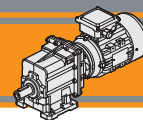
Antes de seleccionar cualquier reductor, favor de revisar los valores dedesempeño en las páginas B10 a la B15.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas B10 a pag. B15.

Before selecting any gearbox, please read the performance values shown in the tables on page B10 to B15.



IEC Dimensión / IEC Dimensões / IEC Dimensions												
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	80	50	95	60	110	70	130	80	130	95	180	110
M	100	65	115	75	130	85	165	100	165	115	215	130
P	120	80	140	90	160	105	200	120	200	140	250	160
D	9		11		14		19		24		28	

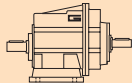


Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CMGIS 042

468	230	11.7	3.74
389	230	9.7	4.50
319	230	8.0	5.48
277	260	7.9	6.31
221	260	6.3	7.93
193	280	5.9	9.08
160	280	4.9	10.93
139	350	5.3	12.60
132	350	5.0	13.30
114	420	5.2	15.30
91	420	4.2	19.24
70	500	3.8	24.99
57	500	3.1	30.57
51	500	2.8	34.20
45	500	2.5	38.63
40	500	2.2	44.18
34	500	1.9	51.30
29	480	1.5	60.80

IEC Motores aplicables
 IEC Motores aplicáveis
 IEC Motor adapters

71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*

CMGIS 043

24	500	1.34	72.83
18	500	1.00	97.45
15	500	0.84	115.74
12	500	0.69	140.81
10	500	0.56	174.26
7.8	500	0.43	225.47
6.7	500	0.37	262.05
5.4	500	0.30	325.79
4.6	500	0.26	378.64
4.1	500	0.23	427.03

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
				*
				*
				*
			*	*
			*	*
			*	*
		*	*	*
		*	*	*
		*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico



* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

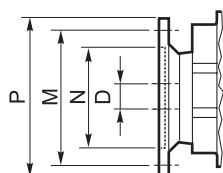


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

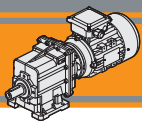
Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas B10 a la B15.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas B10 a pag. B15.

Before selecting any gearbox, please read the performance values shown in the tables on page B10 to B15.

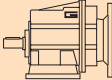
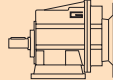


IEC Dimensión / IEC Dimensões / IEC Dimensions												
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	80	50	95	60	110	70	130	80	130	95	180	110
M	100	65	115	75	130	85	165	100	165	115	215	130
P	120	80	140	90	160	105	200	120	200	140	250	160
D	9		11		14		19		24		28	

**CMG**

Motorreductores de engranajes cilíndricos
 Motores de engrenagens helicoidais
 Helical in-line gearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.09							0.12						
(0.12 hp)	348	2.4	16.9	5.03	CMG002	B5/B14	(0.16 hp)	348	3.2	12.7	5.03	CMG002	B5/B14
	287	2.9	13.9	6.10				287	3.8	10.4	6.10		
56B4	234	3.5	11.3	7.49			63A4	234	4.7	8.5	7.49		
(1750 min ⁻¹)	195	4.2	11.8	8.99			(1750 min ⁻¹)	195	5.7	8.8	8.99		
	172	4.8	10.4	10.16				172	6.4	7.8	10.16		
	145	5.7	8.8	12.07				145	7.6	6.6	12.07		
	131	6.3	11.1	13.40				131	8.4	8.3	13.40		
	116	7.1	9.8	15.14				116	10	7.4	15.14		
	96	8.6	8.2	18.17				96	11	6.1	18.17		
	81	10	6.9	21.58				81	14	5.2	21.58		
	74	11	6.3	23.51				74	15	4.7	23.51		
	70	12	5.9	25.10				70	16	4.4	25.10		
	65	13	5.5	27.08				65	17	4.1	27.08		
	54	15	4.6	32.49				54	20	3.4	32.49		
	42	20	3.5	42.04				42	26	2.6	42.04		
	39	21	3.3	44.89				39	28	2.5	44.89		
	36	23	3.0	48.86	CMG012	B5/B14		36	31	2.3	48.86	CMG012	B5/B14
	32	26	2.7	55.10				32	35	2.0	55.10		
	38	22	5.5	45.89				38	29	4.2	45.89		
	36	23	5.2	49.00				36	31	3.9	49.00		
	33	25	4.8	53.33				33	34	3.6	53.33		
	29	28	4.2	60.15				29	38	3.2	60.15		
					CMG013	B5/B14						CMG013	B5/B14
	28	29	4.1	63.22				28	39	3.1	63.22		
	23	35	3.5	75.08				23	46	2.6	75.08		
	20	41	2.9	89.17				20	55	2.2	89.17		
	15	52	2.3	113.05				15	70	1.7	113.05		
	13	62	1.9	134.27				13	83	1.5	134.27		
	10	80	1.5	173.72				10	107	1.1	173.72		
	8.7	93	1.3	202.16				8.7	124	1.0	202.16		
	6.7	121	1.0	261.57				6.7	161	0.7	261.57		
	5.8	140	0.9	304.00									
	4.4	171	0.7	393.33	CMG023	B5/B14		27	39	5.1	64.01	CMG023	B5/B14
	3.9	171	0.7	443.59				23	47	4.3	76.02		
								19	56	3.6	90.29		
	19	42	4.8	90.29				15	70	2.8	114.46		
	15	53	3.8	114.46				13	84	2.4	135.95		
	13	63	3.2	135.95				10	108	1.8	175.89		
	9.9	81	2.5	175.89				8.5	126	1.6	204.69		
	8.5	94	2.1	204.69				6.6	163	1.2	264.84		
	6.6	122	1.6	264.84				5.7	189	1.1	307.80		
	5.7	142	1.4	307.80				4.4	245	0.8	398.25		
	4.4	184	1.1	398.25	CMG033	B5/B14		3.9	276	0.7	449.14	CMG033	B5/B14
	3.9	207	1.0	449.14				10	107	2.8	174.26		
								7.8	139	2.2	225.47		
	12	65	4.6	140.81				6.7	161	1.9	262.05		
	10	80	3.7	174.26				5.4	201	1.5	325.79		
	7.8	104	2.9	225.47				4.6	233	1.3	378.64		
	6.7	121	2.5	262.05				4.1	263	1.1	427.03		
	5.4	150	2.0	325.79				7.8	139	3.6	225.47	CMG043	B5/B14
	4.6	175	1.7	378.64				6.7	161	3.1	262.05		
	4.1	197	1.5	427.03				5.4	201	2.5	325.79		
								4.6	233	2.1	378.64		
	7.8	104	4.8	225.47	CMG043	B5/B14		4.1	263	1.9	427.03		
	6.7	121	4.1	262.05									
	5.4	150	3.3	325.79									
	4.6	175	2.9	378.64									
	4.1	197	2.5	427.03									

NOTA:

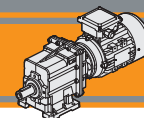
Por favor verifique que el torque de salida M2 no exceda el valor de las áreas grises

N.B.

Sempre verifique que o torque M2 não exceda o valor indicado nas caixas cinzas

N.B.

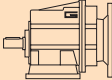
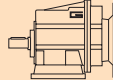
Please check that the output torque M2 does not exceed the value in the grey areas

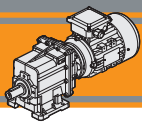


Datos técnicos

Dados técnicos

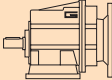
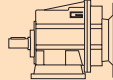
Technical data

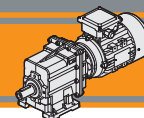
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.18							0.25						
(0.25 hp)	348	4.7	8.4	5.03	CMG002	B5/B14	(0.33 hp)	348	6.6	6.1	5.03	CMG002	B5/B14
	287	5.8	7.0	6.10		B5/B14		287	8.0	5.0	6.10		B5/B14
63B4	234	7.1	5.7	7.49		B5/B14	63C4	234	10	4.1	7.49		B5/B14
(1750 min ⁻¹)	195	8.5	5.9	8.99		B5/B14	(1750 min ⁻¹)	195	12	4.2	8.99		B5/B14
	172	10	5.2	10.16		B5/B14		172	13	3.8	10.16		B5/B14
	145	11	4.4	12.07		B5/B14		145	16	3.2	12.07		B5/B14
	131	13	5.5	13.40		B5/B14		131	18	4.0	13.40		B5/B14
	116	14	4.9	15.14		B5/B14		116	20	3.5	15.14		B5/B14
	96	17	4.1	18.17		B5/B14		96	24	2.9	18.17		B5/B14
	81	20	3.4	21.58		B5/B14		81	28	2.5	21.58		B5/B14
	74	22	3.2	23.51		B5/B14		74	31	2.3	23.51		B5/B14
	70	24	3.0	25.10		B5/B14		70	33	2.1	25.10		B5/B14
	65	26	2.7	27.08		B5/B14		65	35	2.0	27.08		B5/B14
	54	31	2.3	32.49		B5/B14		54	43	1.6	32.49		B5/B14
	42	40	1.8	42.04		B5/B14		42	55	1.3	42.04		B5/B14
	39	42	1.7	44.89		B5/B14		39	59	1.2	44.89		B5/B14
	36	46	1.5	48.86		B5/B14		36	64	1.1	48.86		B5/B14
	32	52	1.3	55.10		B5/B14		32	72	1.0	55.10		B5/B14
	74	22	5.4	23.56	CMG012	B5/B14		92	25	4.8	19.07	CMG012	B5/B14
	59	28	4.3	29.56		B5/B14		88	26	4.6	19.83		B5/B14
	49	33	3.6	35.47		B5/B14		74	31	3.9	23.56		B5/B14
	38	43	2.8	45.89		B5/B14		59	39	3.1	29.56		B5/B14
	36	46	2.6	49.00		B5/B14		49	46	2.6	35.47		B5/B14
	33	50	2.4	53.33		B5/B14		38	60	2.0	45.89		B5/B14
	29	57	2.1	60.15	CMG013	B5/B14		36	64	1.9	49.00	CMG013	B5/B14
	28	58	2.1	63.22		B5/B14		33	70	1.7	53.33		B5/B14
	23	69	1.7	75.08		B5/B14		29	79	1.5	60.15		B5/B14
	20	82	1.5	89.17		B5/B14		28	81	1.5	63.22		B5/B14
	15	104	1.1	113.05		B5/B14		23	96	1.2	75.08		B5/B14
	13	124	1.0	134.27		B5/B14		20	114	1.0	89.17		B5/B14
	27	59	3.4	64.01	CMG023	B5/B14		38	61	3.3	46.46	CMG022	B5/B14
	23	70	2.8	76.02		B5/B14		35	65	3.1	49.61		B5/B14
	19	83	2.4	90.29		B5/B14		32	71	2.8	54.00		B5/B14
	15	106	1.9	114.46		B5/B14		29	80	2.5	60.90		B5/B14
	13	126	1.6	135.95		B5/B14		27	82	2.4	64.01	CMG023	B5/B14
	10	162	1.2	175.89		B5/B14		23	97	2.1	76.02		B5/B14
	8.5	189	1.1	204.69	CMG033	B5/B14		19	116	1.7	90.29		B5/B14
	12	130	2.3	140.81		B5/B14		15	147	1.4	114.46		B5/B14
	10	161	1.9	174.26		B5/B14		13	174	1.1	135.95		B5/B14
	7.8	208	1.4	225.47		B5/B14		10	226	0.9	175.89		B5/B14
	6.7	242	1.2	262.05		B5/B14		24	93	3.2	72.83	CMG033	B5/B14
	5.4	301	1.0	325.79		B5/B14		18	125	2.4	97.45		B5/B14
	4.6	350	0.9	378.64	CMG043	B5/B14		15	148	2.0	115.74		B5/B14
	10	161	3.1	174.26		B5/B14		12	181	1.7	140.81		B5/B14
	7.8	208	2.4	225.47		B5/B14		10	223	1.3	174.26		B5/B14
	6.7	242	2.1	262.05		B5/B14		7.8	289	1.0	225.47		B5/B14
	5.4	301	1.7	325.79		B5/B14		6.7	336	0.9	262.05		B5/B14
	4.6	350	1.4	378.64		B5/B14		15	148	3.4	115.74	CMG043	B5/B14
	4.1	394	1.3	427.03		B5/B14		12	181	2.8	140.81		B5/B14
								10	223	2.2	174.26		B5/B14
								7.8	289	1.7	225.47		B5/B14
								6.7	336	1.5	262.05		B5/B14
								5.4	418	1.2	325.79		B5/B14
								4.6	486	1.0	378.64		B5/B14
								4.1	548	0.9	427.03		B5/B14

**CMG**

Motorreductores de engranajes cilíndricos
 Motores de engrenagens helicoidais
 Helical in-line gearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

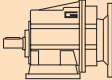
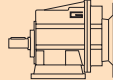
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.37							0.55						
(0.50 hp)	348	10	4.1	5.03	CMG002	B5/B14	(0.75 hp)	348	14	2.8	5.03	CMG002	B5/B14
	287	12	3.4	6.10		B5/B14		287	18	2.3	6.10		B5/B14
71A4	234	15	2.8	7.49		B5/B14	71B4	234	22	1.9	7.49		B5/B14
(1750 min ⁻¹)	195	17	2.9	8.99		B5/B14	(1750 min ⁻¹)	195	26	1.9	8.99		B5/B14
	172	20	2.5	10.16		B5/B14		172	29	1.7	10.16		B5/B14
	145	23	2.1	12.07		B5/B14		145	35	1.4	12.07		B5/B14
	131	26	2.7	13.40		B5/B14		131	39	1.8	13.40		B5/B14
	116	29	2.4	15.14		B5/B14		116	44	1.6	15.14		B5/B14
	96	35	2.0	18.17		B5/B14		96	52	1.3	18.17		B5/B14
	81	42	1.7	21.58		B5/B14		81	62	1.1	21.58		B5/B14
	74	46	1.5	23.51		B5/B14		74	68	1.0	23.51		B5/B14
	70	49	1.4	25.10		B5/B14		70	72	1.0	25.10		B5/B14
	65	52	1.3	27.08		B5/B14		65	78	0.9	27.08		B5/B14
	54	63	1.1	32.49		B5/B14						CMG012	B5/B14
	42	81	0.9	42.04		B5/B14		458	11	5.5	3.82		B5/B14
					CMG012	B5/B14		378	13	4.5	4.63		B5/B14
	147	23	4.3	11.90		B5/B14		308	16	3.7	5.69		B5/B14
	127	27	4.5	13.80		B5/B14		227	22	3.6	7.72		B5/B14
	120	28	4.2	14.62		B5/B14		191	26	3.0	9.17		B5/B14
	98	35	3.5	17.86		B5/B14		178	28	2.8	9.81		B5/B14
	92	37	3.2	19.07		B5/B14		152	33	3.0	11.50		B5/B14
	88	38	3.1	19.83		B5/B14		147	34	2.9	11.90		B5/B14
	74	46	2.6	23.56		B5/B14		127	40	3.0	13.80		B5/B14
	59	57	2.1	29.56		B5/B14		120	42	2.8	14.62		B5/B14
	49	69	1.7	35.47		B5/B14		98	51	2.3	17.86		B5/B14
	38	89	1.3	45.89		B5/B14		92	55	2.2	19.07		B5/B14
	36	95	1.3	49.00		B5/B14		88	57	2.1	19.83		B5/B14
	33	103	1.2	53.33		B5/B14		74	68	1.8	23.56		B5/B14
	29	117	1.0	60.15		B5/B14		59	85	1.4	29.56		B5/B14
					CMG013	B5/B14		49	102	1.2	35.47		B5/B14
	28	120	1.0	63.22		B5/B14		38	132	0.9	45.89		B5/B14
								36	141	0.8	49.00		B5/B14
	58	58	3.4	29.93		B5/B14						CMG022	B5/B14
	49	70	2.9	35.91	CMG022	B5/B14		73	69	2.9	23.85		B5/B14
	38	90	2.2	46.46		B5/B14		58	86	2.3	29.93		B5/B14
	35	96	2.1	49.61		B5/B14		49	103	1.9	35.91		B5/B14
	32	105	1.9	54.00		B5/B14		38	134	1.5	46.46		B5/B14
	29	118	1.7	60.90		B5/B14		35	143	1.4	49.61		B5/B14
					CMG023	B5/B14		32	156	1.3	54.00		B5/B14
	27	121	1.6	64.01		B5/B14		29	175	1.1	60.90		B5/B14
	23	144	1.4	76.02		B5/B14						CMG023	B5/B14
	19	171	1.2	90.29		B5/B14		27	181	1.1	64.01		B5/B14
	15	217	0.9	114.46		B5/B14		23	214	0.9	76.02		B5/B14
					CMG032	B5		57	88	3.4	30.57	CMG032	B5
	34	99	3.0	51.30		B5		51	99	3.0	34.20		B5
	29	118	2.5	60.80	CMG033	B5/B14		45	111	2.7	38.63		B5
						B5/B14		40	127	2.4	44.18		B5
	24	138	2.2	72.83		B5/B14		34	148	2.0	51.30		B5
	18	185	1.6	97.45		B5/B14		29	175	1.7	60.80		B5
	15	220	1.4	115.74		B5/B14						CMG033	B5/B14
	12	267	1.1	140.81		B5/B14		24	205	1.5	72.83		B5/B14
	10	331	0.9	174.26		B5/B14		18	275	1.1	97.45		B5/B14
					CMG043	B5/B14		15	327	0.9	115.74		B5/B14
	24	138	3.6	72.83		B5/B14						CMG042	B5
	18	185	2.7	97.45		B5/B14		34	148	3.4	51.30		B5
	15	220	2.3	115.74		B5/B14		29	175	2.7	60.80		B5
	12	267	1.9	140.81		B5/B14						CMG043	B5/B14
	10	331	1.5	174.26		B5/B14		24	205	2.4	72.83		B5/B14
	7.8	428	1.2	225.47		B5/B14		18	275	1.8	97.45		B5/B14
	6.7	497	1.0	262.05		B5/B14		15	327	1.5	115.74		B5/B14
								12	397	1.3	140.81		B5/B14
								10	492	1.0	174.26		B5/B14

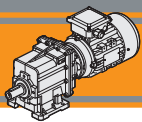


Datos técnicos

Dados técnicos

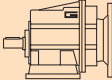
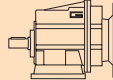
Technical data

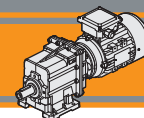
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.75							1.1						
(1.0 hp)	348	20	2.0	5.03	CMG002	B5/B14	(1.5 hp)	348	29	1.4	5.03	CMG002	B5/B14
	287	24	1.7	6.10		B5/B14		287	35	1.1	6.10		B5/B14
80A4	234	29	1.4	7.49		B5/B14	80B4	234	43	0.9	7.49		B5/B14
(1750 min ⁻¹)	195	35	1.4	8.99		B5/B14	(1750 min ⁻¹)	195	52	1.0	8.99		B5/B14
	172	40	1.3	10.16		B5/B14		172	59	0.9	10.16		B5/B14
	145	47	1.1	12.07		B5/B14		131	77	0.9	13.40		B5/B14
	131	53	1.3	13.40		B5/B14							
	116	59	1.2	15.14		B5/B14		458	22	2.7	3.82	CMG012	B5/B14
	96	71	1.0	18.17		B5/B14		378	27	2.2	4.63		B5/B14
					CMG012			308	33	1.8	5.69		B5/B14
	458	15	4.0	3.82		B5/B14		227	44	1.8	7.72		B5/B14
	378	18	3.3	4.63		B5/B14		191	53	1.5	9.17		B5/B14
	308	22	2.7	5.69		B5/B14		178	57	1.4	9.81		B5/B14
	227	30	2.6	7.72		B5/B14		152	66	1.5	11.50		B5/B14
	191	36	2.2	9.17		B5/B14		147	69	1.5	11.90		B5/B14
	178	39	2.1	9.81		B5/B14		127	80	1.5	13.80		B5/B14
	152	45	2.2	11.50	CMG022	B5/B14		120	84	1.4	14.62	CMG022	B5/B14
	147	47	2.1	11.90		B5/B14		98	103	1.2	17.86		B5/B14
	127	54	2.2	13.80		B5/B14		92	110	1.1	19.07		B5/B14
	120	57	2.1	14.62		B5/B14		88	114	1.0	19.83		B5/B14
	98	70	1.7	17.86		B5/B14		74	136	0.9	23.56		B5/B14
	92	75	1.6	19.07		B5/B14							
	88	78	1.5	19.83		B5/B14		479	21	4.7	3.66		B5/B14
	74	93	1.3	23.56		B5/B14		395	26	3.9	4.43	CMG032	B5/B14
	59	116	1.0	29.56	CMG032	B5/B14		321	31	3.2	5.45		B5/B14
	49	139	0.9	35.47		B5/B14		237	43	2.8	7.39		B5/B14
								199	51	2.4	8.78		B5/B14
	176	39	3.1	9.93		B5/B14		176	57	2.1	9.93		B5/B14
	159	43	4.6	11.01		B5/B14		159	63	3.2	11.01		B5/B14
	145	47	4.2	12.05		B5/B14		145	69	2.9	12.05		B5/B14
	132	52	3.1	13.21		B5/B14		132	76	2.1	13.21		B5/B14
	118	58	3.4	14.81		B5/B14		118	85	2.3	14.81		B5/B14
	102	67	1.9	17.10	CMG042	B5/B14		102	99	1.3	17.10	CMG042	B5/B14
	87	79	2.5	20.08		B5/B14		87	116	1.7	20.08		B5/B14
	73	94	2.1	23.85		B5/B14		73	137	1.5	23.85		B5/B14
	58	118	1.7	29.93		B5/B14		58	172	1.2	29.93		B5/B14
	49	141	1.4	35.91		B5/B14		49	207	1.0	35.91		B5/B14
	38	183	1.1	46.46		B5/B14							
	35	195	1.0	49.61		B5/B14		160	63	2.9	10.93	CMG032	B5/B14
	32	212	0.9	54.00		B5/B14		139	73	3.4	12.60		B5/B14
					CMG032			132	77	3.3	13.30		B5/B14
	83	83	2.9	21.15		B5/B14		114	88	3.2	15.30		B5/B14
	70	98	3.1	24.99		B5/B14		96	105	2.3	18.21		B5/B14
	57	120	2.5	30.57		B5/B14		91	111	2.5	19.24		B5/B14
	51	134	2.2	34.20		B5/B14		83	122	2.0	21.15		B5/B14
	45	152	2.0	38.63		B5/B14		70	144	2.1	24.99		B5/B14
	40	174	1.7	44.18		B5/B14		57	176	1.7	30.57		B5/B14
	34	202	1.5	51.30	CMG043	B5/B14		51	197	1.5	34.20	CMG043	B5/B14
	29	239	1.3	60.80		B5/B14		45	223	1.3	38.63		B5/B14
								40	255	1.2	44.18		B5/B14
	24	280	1.1	72.83		B5/B14		34	296	1.0	51.30		B5/B14
	51	134	3.7	34.20		B5/B14		29	350	0.9	60.80		B5/B14
	45	152	3.3	38.63		B5/B14		91	111	3.8	19.24		B5/B14
	40	174	2.9	44.18		B5/B14		70	144	3.5	24.99		B5/B14
	34	202	2.5	51.30		B5/B14		57	176	2.8	30.57		B5/B14
	29	239	2.0	60.80	CMG043	B5/B14		51	197	2.5	34.20		B5/B14
								45	223	2.2	38.63		B5/B14
	24	280	1.8	72.83		B5/B14		40	255	2.0	44.18		B5/B14
	18	375	1.3	97.45		B5/B14		34	296	1.7	51.30		B5/B14
	15	445	1.1	115.74		B5/B14		29	350	1.4	60.80		B5/B14
	12	542	0.9	140.81		B5/B14		24	411	1.2	72.83		B5/B14
								18	550	0.9	97.45		B5/B14

**CMG**

Motorreductores de engranajes cilíndricos
 Motores de engrenagens helicoidais
 Helical in-line gearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

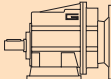
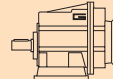
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
1.5							2.2						
(2.0 hp)	458	30	2.0	3.82	CMG012	B5/B14	(3.0 hp)	458	44	1.4	3.82	CMG012	B5/B14
	378	36	1.6	4.63		B5/B14		378	53	1.1	4.63		B5/B14
90S4	308	45	1.3	5.69		B5/B14	90L4	308	66	0.9	5.69		B5/B14
(1750 min ⁻¹)	227	61	1.3	7.72		B5/B14	(1750 min ⁻¹)	227	89	0.9	7.72		B5/B14
	191	72	1.1	9.17		B5/B14							
	178	77	1.0	9.81		B5/B14		479	42	2.4	3.66	CMG022	B5/B14
	152	90	1.1	11.50		B5/B14		395	51	2.0	4.43		B5/B14
	147	94	1.1	11.90		B5/B14		321	63	1.6	5.45		B5/B14
	127	108	1.1	13.80		B5/B14		237	85	1.4	7.39		B5/B14
	120	115	1.0	14.62		B5/B14		199	101	1.2	8.78		B5/B14
	98	140	0.9	17.86		B5/B14		176	115	1.0	9.93		B5/B14
					CMG022			159	127	1.6	11.01		B5/B14
	479	29	3.5	3.66		B5/B14		145	139	1.4	12.05		B5/B14
	395	35	2.9	4.43		B5/B14		118	171	1.2	14.81		B5/B14
	321	43	2.3	5.45		B5/B14						CMG032	B5/B14
	237	58	2.1	7.39		B5/B14		468	43	3.5	3.74		B5/B14
	199	69	1.7	8.78		B5/B14		389	52	2.9	4.50		B5/B14
	176	78	1.5	9.93		B5/B14		319	63	2.4	5.48		B5/B14
	159	87	2.3	11.01		B5/B14		277	73	2.5	6.31		B5/B14
	145	95	2.1	12.05		B5/B14		221	91	2.0	7.93		B5/B14
	132	104	1.5	13.21		B5/B14		193	105	1.7	9.08		B5/B14
	118	116	1.7	14.81		B5/B14		160	126	1.4	10.93		B5/B14
	87	158	1.3	20.08		B5/B14		139	145	1.7	12.60		B5/B14
	73	187	1.1	23.85		B5/B14		132	153	1.6	13.30		B5/B14
	58	235	0.9	29.93		B5/B14		114	176	1.6	15.30		B5/B14
					CMG032			91	222	1.3	19.24		B5/B14
	468	29	5.1	3.74		B5/B14		70	288	1.0	24.99	CMG042	B5/B14
	389	35	4.2	4.50		B5/B14		57	352	0.9	30.57		B5/B14
	319	43	3.5	5.48		B5/B14							
	277	50	3.6	6.31		B5/B14		468	43	5.3	3.74		B5/B14
	221	62	2.9	7.93		B5/B14		389	52	4.4	4.50		B5/B14
	193	71	2.5	9.08		B5/B14		319	63	3.6	5.48		B5/B14
	160	86	2.1	10.93		B5/B14		277	73	3.6	6.31		B5/B14
	139	99	2.5	12.60		B5/B14		221	91	2.8	7.93		B5/B14
	132	105	2.4	13.30		B5/B14		193	105	2.7	9.08		B5/B14
	114	120	2.3	15.30		B5/B14		160	126	2.2	10.93		B5/B14
	96	143	1.7	18.21	CMG042	B5/B14		139	145	2.4	12.60		B5/B14
	91	151	1.9	19.24		B5/B14		132	153	2.3	13.30		B5/B14
	83	166	1.4	21.15		B5/B14		114	176	2.4	15.30		B5/B14
	70	196	1.5	24.99		B5/B14		91	222	1.9	19.24		B5/B14
	57	240	1.2	30.57		B5/B14		70	288	1.7	24.99		B5/B14
	51	269	1.1	34.20		B5/B14		57	352	1.4	30.57		B5/B14
	45	304	1.0	38.63		B5/B14		51	394	1.3	34.20		B5/B14
	40	347	0.9	44.18		B5/B14		45	445	1.1	38.63		B5/B14
								40	509	1.0	44.18		B5/B14
	160	86	3.3	10.93	CMG042	B5/B14						CMG043	B5/B14
	139	99	3.5	12.60		B5/B14							
	132	105	3.3	13.30		B5/B14							
	114	120	3.5	15.30		B5/B14							
	91	151	2.8	19.24		B5/B14							
	70	196	2.5	24.99		B5/B14							
	57	240	2.1	30.57		B5/B14							
	51	269	1.9	34.20		B5/B14							
	45	304	1.6	38.63		B5/B14							
	40	347	1.4	44.18		B5/B14							
	34	403	1.2	51.30	CMG043	B5/B14							
	29	478	1.0	60.80		B5/B14							
	24	560	0.9	72.83									

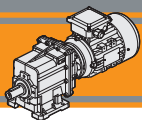


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
3							4.5							
(4.0 hp) 100LA4 (1750 min ⁻¹)	468	59	2.6	3.74	CMG032	B5/B14	(6.0 hp) 112MA4 (1750 min ⁻¹)	468	88	1.7	3.74	CMG032	B5/B14	
	389	71	2.1	4.50		B5/B14		389	106	1.4	4.50		B5/B14	
	319	86	1.7	5.48		B5/B14		319	129	1.2	5.48		B5/B14	
	277	99	1.8	6.31		B5/B14		277	149	1.2	6.31		B5/B14	
	221	125	1.4	7.93		B5/B14		221	187	1.0	7.93		B5/B14	
	193	143	1.3	9.08		B5/B14								
	160	172	1.0	10.93		B5/B14		468	88	2.6	3.74		CMG042	B5/B14
	139	198	1.3	12.60		B5/B14		389	106	2.2	4.50			B5/B14
	132	209	1.2	13.30		B5/B14		319	129	1.8	5.48			B5/B14
	114	240	1.2	15.30		B5/B14		277	149	1.7	6.31			B5/B14
	91	302	0.9	19.24	B5/B14	221	187	1.4	7.93	B5/B14				
						193	214	1.3	9.08	B5/B14				
	468	59	3.9	3.74	CMG042	B5/B14	160	258	1.1	10.93	B5/B14			
	389	71	3.2	4.50		B5/B14	139	297	1.2	12.60	B5/B14			
	319	86	2.7	5.48		B5/B14	132	314	1.1	13.30	B5/B14			
	277	99	2.6	6.31		B5/B14	114	361	1.2	15.30	B5/B14			
	221	125	2.1	7.93		B5/B14	91	454	0.9	19.24	B5/B14			
	193	143	2.0	9.08		B5/B14	70	589	0.8	24.99	B5/B14			
	160	172	1.6	10.93		B5/B14								
	139	198	1.8	12.60		B5/B14								
132	209	1.7	13.30	B5/B14										
114	240	1.7	15.30	B5/B14										
91	302	1.4	19.24	B5/B14										
70	393	1.3	24.99	B5/B14										
57	480	1.0	30.57	B5/B14										
51	538	0.9	34.20	B5/B14										
3.7							5.5							
(5.0 hp) 100LB4 (1750 min ⁻¹)	468	73	2.1	3.74	CMG032	B5/B14	(7.5 hp) 112MB4 (1750 min ⁻¹)	468	108	1.4	3.74	CMG032	B5/B14	
	389	87	1.7	4.50		B5/B14		389	130	1.2	4.50		B5/B14	
	319	106	1.4	5.48		B5/B14		319	158	0.9	5.48		B5/B14	
	277	122	1.5	6.31		B5/B14		277	182	1.0	6.31		B5/B14	
	221	154	1.2	7.93		B5/B14								
	193	176	1.0	9.08		B5/B14		468	108	2.1	3.74		CMG042	B5/B14
	160	212	0.8	10.93		B5/B14		389	130	1.8	4.50			B5/B14
	139	244	1.0	12.60		B5/B14		319	158	1.5	5.48			B5/B14
	132	258	1.0	13.30		B5/B14		277	182	1.4	6.31			B5/B14
	114	297	0.9	15.30		B5/B14		221	229	1.1	7.93			B5/B14
						193	262	1.1	9.08	B5/B14				
	468	73	3.2	3.74	CMG042	B5/B14	160	315	0.9	10.93	B5/B14			
	389	87	2.6	4.50		B5/B14	139	363	1.0	12.60	B5/B14			
	319	106	2.2	5.48		B5/B14	132	383	0.9	13.30	B5/B14			
	277	122	2.1	6.31		B5/B14	114	441	1.0	15.30	B5/B14			
	221	154	1.7	7.93		B5/B14								
	193	176	1.6	9.08		B5/B14								
	160	212	1.3	10.93		B5/B14								
	139	244	1.4	12.60		B5/B14								
	132	258	1.4	13.30		B5/B14								
114	297	1.4	15.30	B5/B14										
91	373	1.1	19.24	B5/B14										
70	484	1.0	24.99	B5/B14										
57	593	0.8	30.57	B5/B14										



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

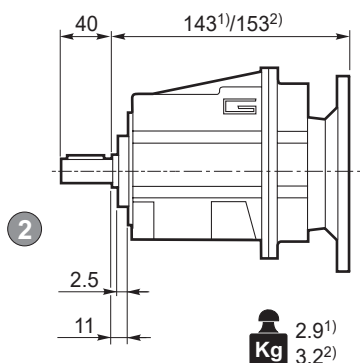
Dimensiones

Dimensões

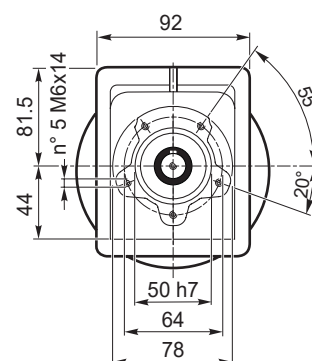
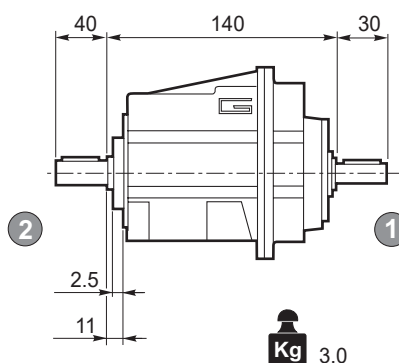
Dimensions

CMG 002 U

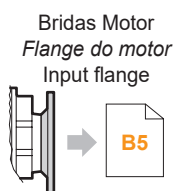
CMG 002 U



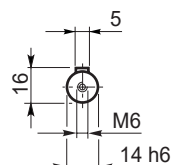
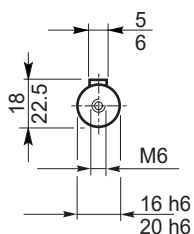
CMGIS 002 U



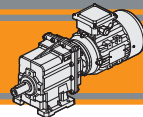
¹)IEC 63/71, ²)IEC 80



Eje de salida
Eixo saída
Output shaft
2



Eje de entrada
Eixo entrada
Input shaft
1



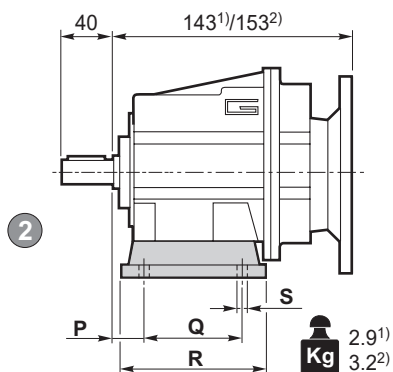
Dimensiones

Dimensões

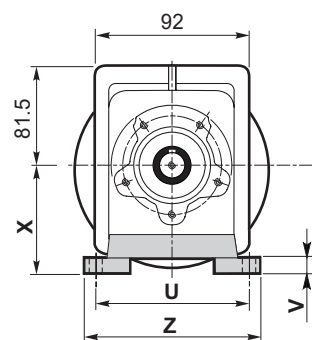
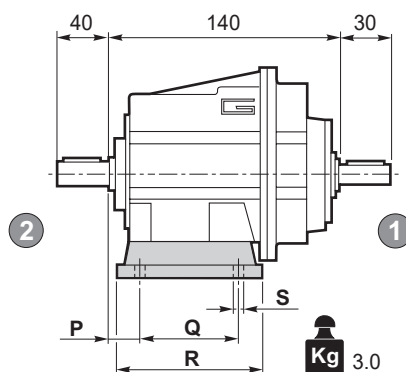
Dimensions

CMG 002 H..

CMG 002 H..

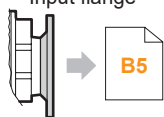


CMGIS 002 H..



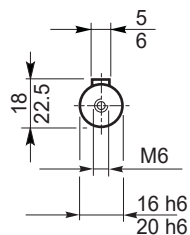
¹⁾IEC 63/71, ²⁾IEC 80

Bridas Motor
 Flange do motor
 Input flange



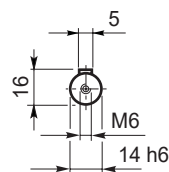
Eje de salida
 Eixo saída
 Output shaft

2



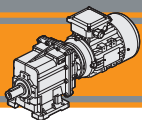
Eje de entrada
 Eixo entrada
 Input shaft

1



Versión H / Versão H / H Version										
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patás / Base / Foot	
									Tipo / Tipo / Type	Peso / Peso / Weight [kg]
002	18	60	80	9	100	10	60	120	H60	0.2
	18	80	104	9	110 - 120	10	75	145	H75	0.3
	18	50 - 87	110	9	110	10	85	135	H85	0.4

Preferencial / Preferencial / Preferred



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

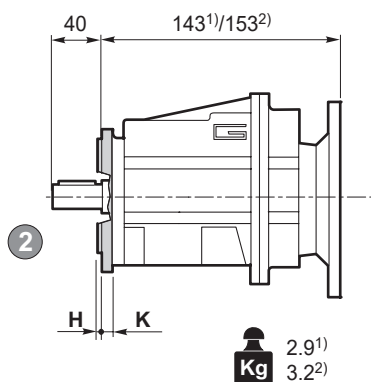
Dimensiones

Dimensões

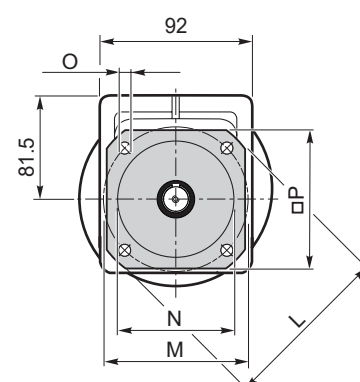
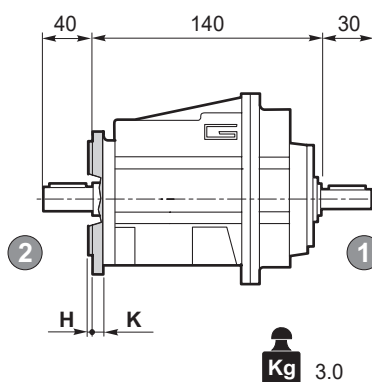
Dimensions

CMG 002 F..

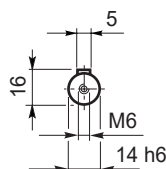
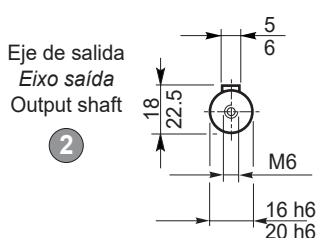
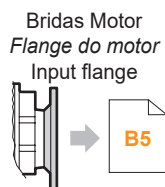
CMG 002 F..



CMGIS 002 F..

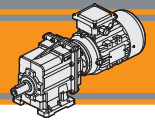


¹)IEC 63/71, ²)IEC 80



Eje de entrada
Eixo entrada
Input shaft
1

Versión F / Versão F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	9	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2



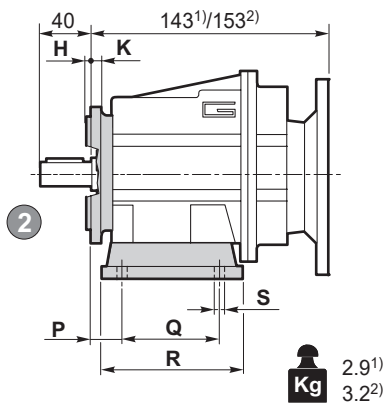
Dimensiones

Dimensões

Dimensions

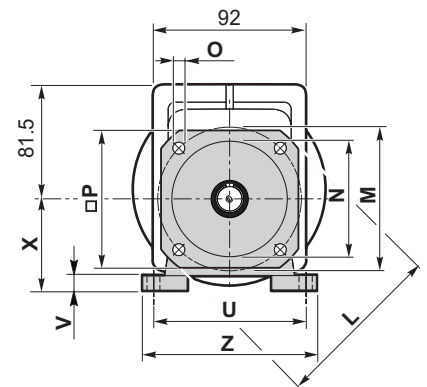
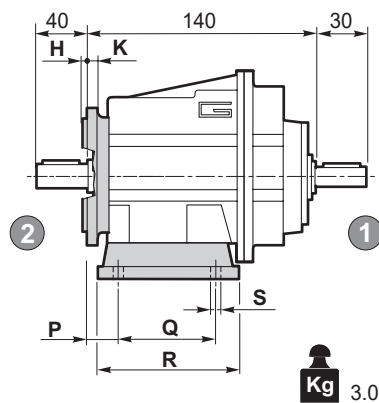
CMG 002 H../F..

CMG 002 H../F..

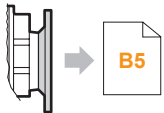


¹⁾IEC 63/71, ²⁾IEC 80

CMGIS 002 H../F..

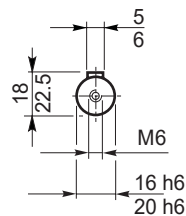


Bridas Motor
 Flange do motor
 Input flange



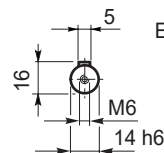
Eje de salida
 Eixo saída
 Output shaft

2



Eje de entrada
 Eixo entrada
 Input shaft

1

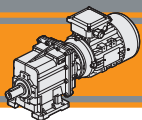


Versión H / Versão H / H Version									Combinaciones posibles H/F Combinações possíveis H/F Possible combinations H/F		
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot		
									Tipo / Tipo / Type	Kg	
002	18	60	80	9	100	10	60	120	H60	0.2	F105
	18	80	104	9	110 - 120	10	75	145	H75	0.3	F120
	18	50 - 87	110	9	110	10	85	135	H85	0.4	F140

Preferencial / Preferencial / Preferred

• Combinaciones posibles H/F / Combinações possíveis H/F / Possible combinations H/F

Versión F / Versão F / F Version								Brida / Flange / Flange	
CMG CMGIS	H	K	L	M	N f7	O	P	Tipo / Tipo / Type	
								Peso / Peso / Weight [kg]	
002	3.5	7	105	85	70	6.5	90	F105	0.1
	3.5	8	120	100	80	9	100	F120	0.2
	3.5	8	140	115	95	9	115	F140	0.2



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

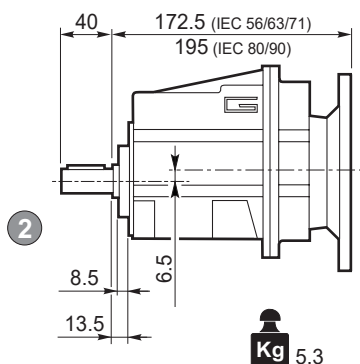
Dimensiones

Dimensões

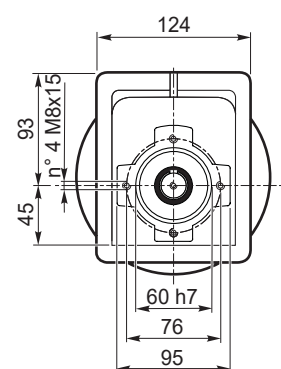
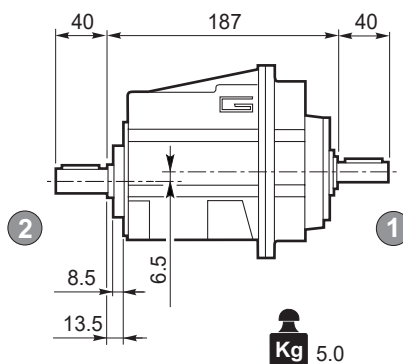
Dimensions

CMG 012 U - CMG 013 U

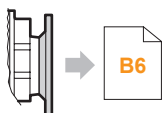
CMG 012 U



CMGIS 012 U

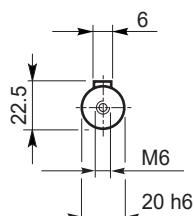


Bridas Motor
Flange do motor
Input flange



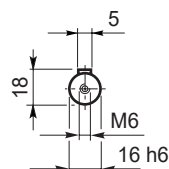
Eje de salida
Eixo saída
Output shaft

2

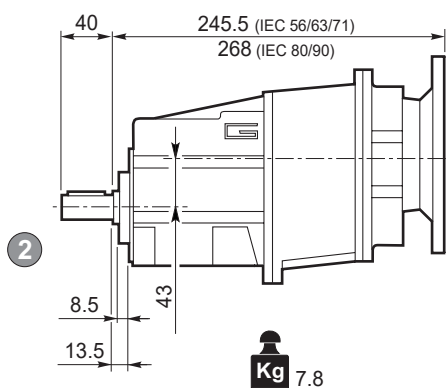


Eje de entrada
Eixo entrada
Input shaft

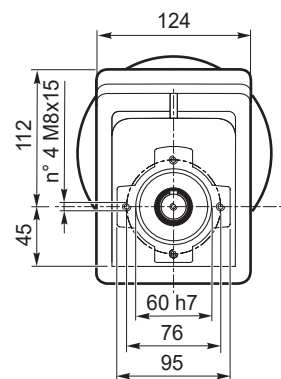
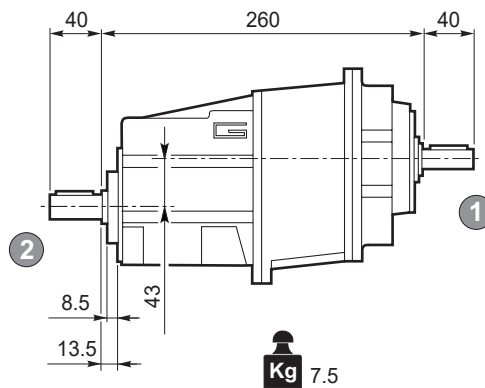
1



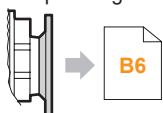
CMG 013 U



CMGIS 013 U

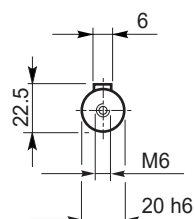


Bridas Motor
Flange do motor
Input flange



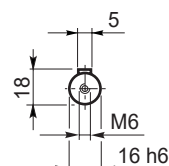
Eje de salida
Eixo saída
Output shaft

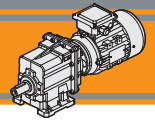
2



Eje de entrada
Eixo entrada
Input shaft

1





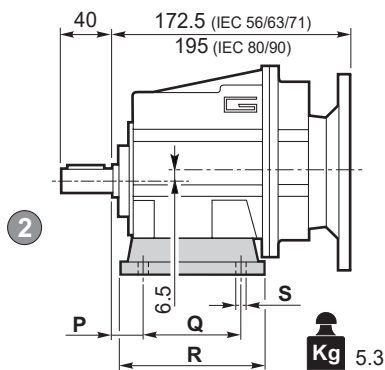
Dimensiones

Dimensões

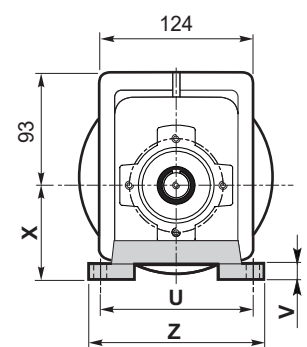
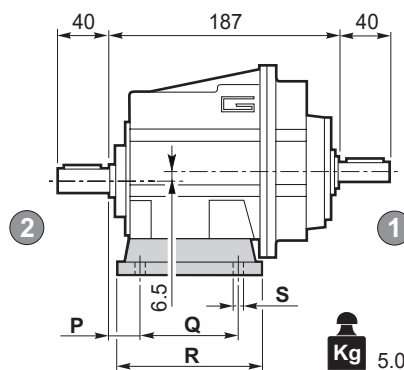
Dimensions

CMG 012 H.. - CMG 013 H..

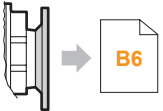
CMG 012 H..



CMGIS 012 H..

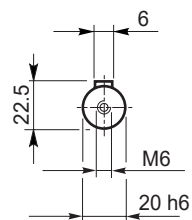


Bridas Motor
Flange do motor
Input flange



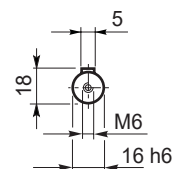
Eje de salida
Eixo saída
Output shaft

2

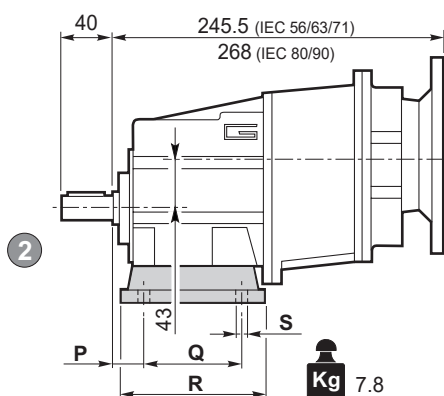


Eje de entrada
Eixo entrada
Input shaft

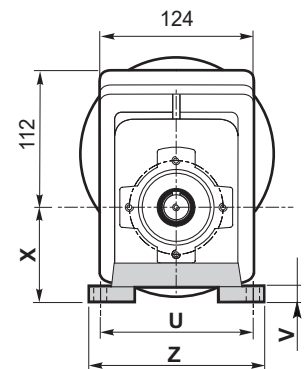
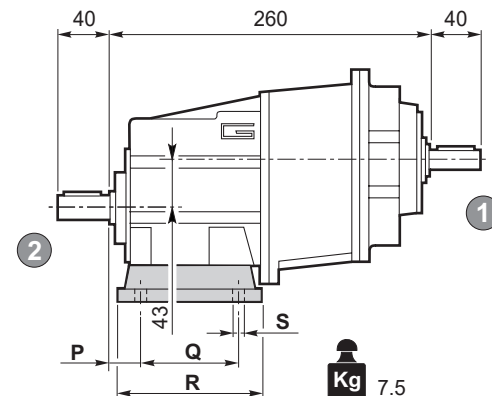
1



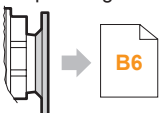
CMG 013 H..



CMGIS 013 H..

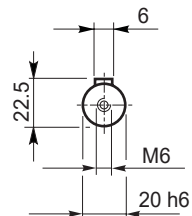


Bridas Motor
Flange do motor
Input flange



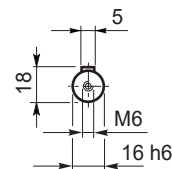
Eje de salida
Eixo saída
Output shaft

2



Eje de entrada
Eixo entrada
Input shaft

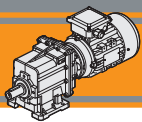
1



Versión H / Versão H / H Version

CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot	
									Tipo / Tipo / Type	Peso / Peso / Weight [kg]
012 013	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7

Preferencial / Preferencial / Preferred



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

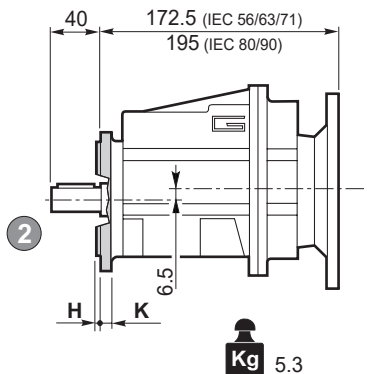
Dimensiones

Dimensões

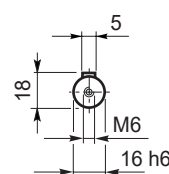
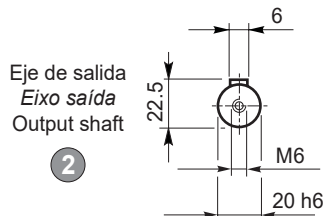
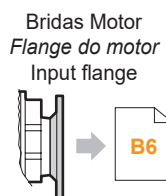
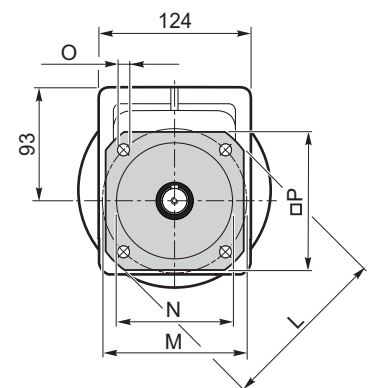
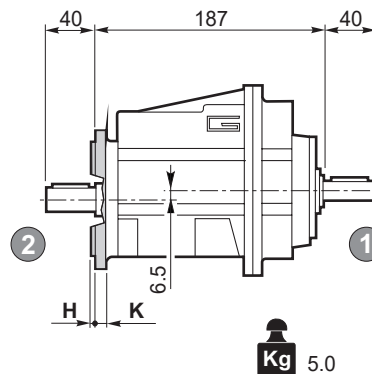
Dimensions

CMG 012 F.. - CMG 013 F..

CMG 012 F..

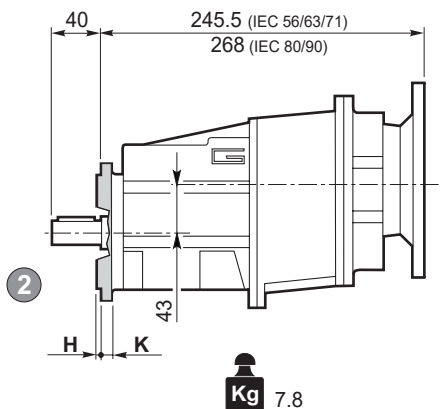


CMGIS 012 F..

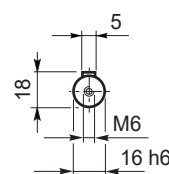
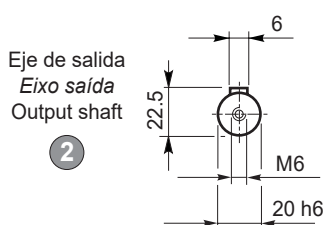
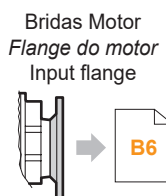
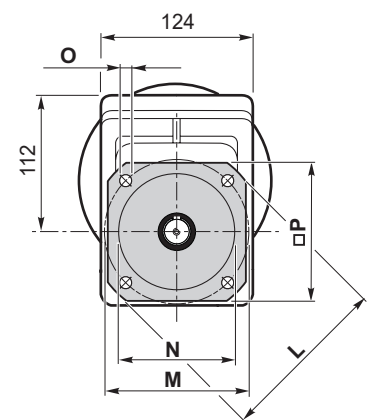
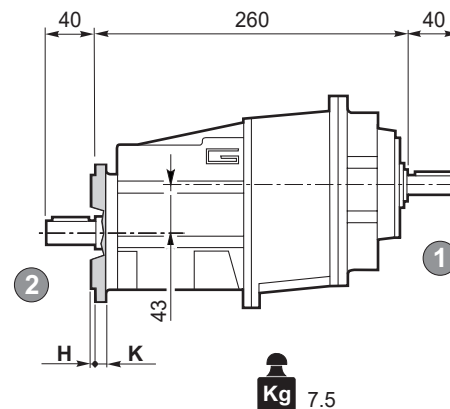


Eje de entrada
Eixo entrada
Input shaft

CMG 013 F..



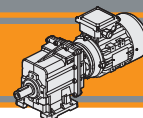
CMGIS 013 F..



Eje de entrada
Eixo entrada
Input shaft

Versión F / Versão F / F Version

CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
012 013	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8



Dimensiones

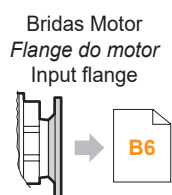
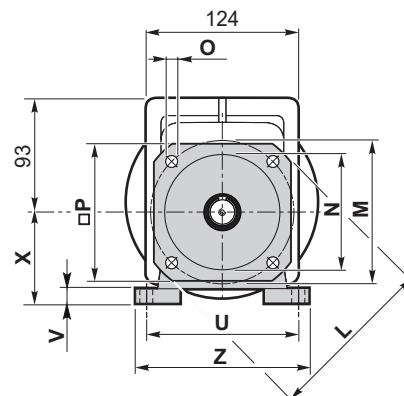
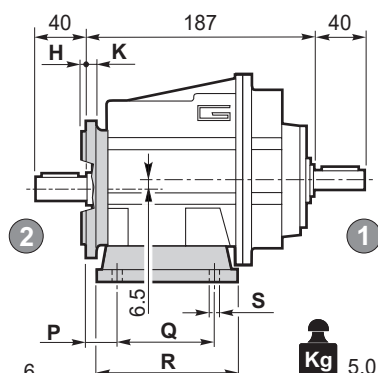
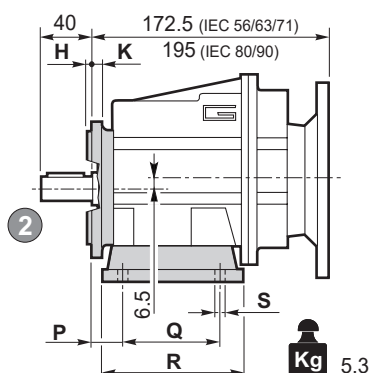
Dimensões

Dimensions

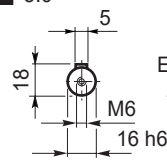
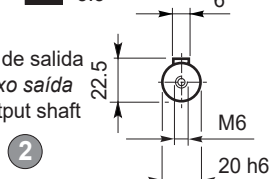
CMG 012 H../F.. - CMG 013 H../F..

CMG 012 H../F..

CMGIS 012 H../F..



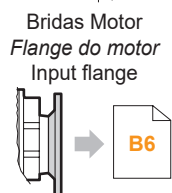
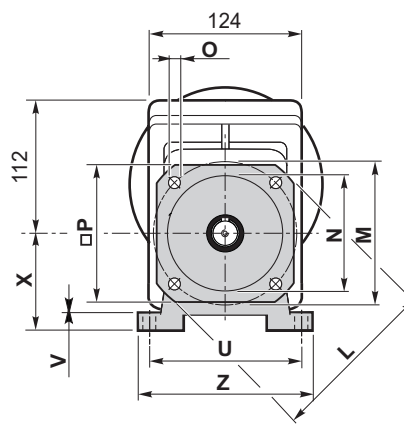
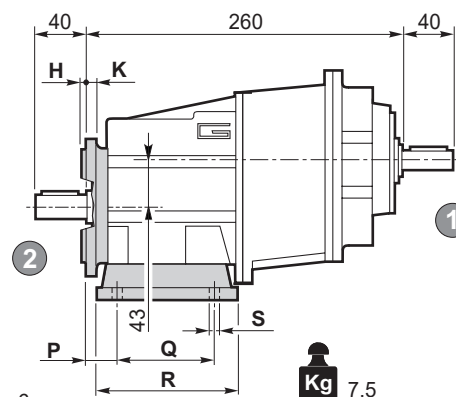
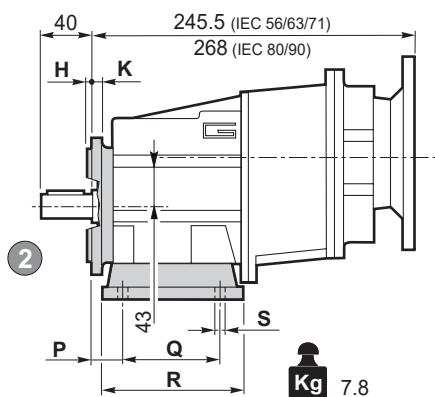
Eje de salida
Eixo saída
Output shaft



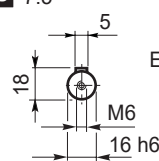
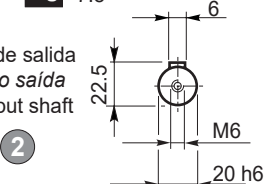
Eje de entrada
Eixo entrada
Input shaft

CMG 013 H../F..

CMGIS 013 H../F..



Eje de salida
Eixo saída
Output shaft



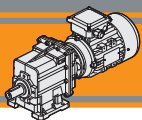
Eje de entrada
Eixo entrada
Input shaft

Versión H / Versão H / H Version										Combinaciones posibles H/F Combinações possíveis H/F Possible combinations H/F				
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot		F120	F140	F160	F200
									Tipo / Tipo / Type	 Kg				
012 013	20	85	108	9	115	12	65	139	H65	0.7	●	●		
	18	80	118	9	110	12	75	140	H75	1.0	●	●	●	
	25	85	120	9	120	12	80	140	H80	1.1	●	●	●	
	18	50 - 87	118	9	110	12	85	130	H85	1.2	●	●	●	
	25	130	154	9	110	12	90	135	H90	1.5	●	●	●	●
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7	●	●	●	●

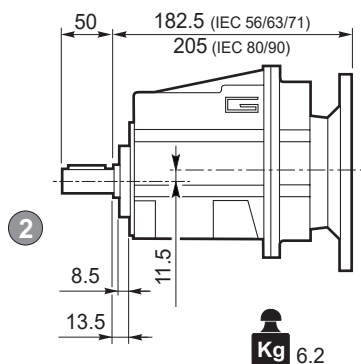
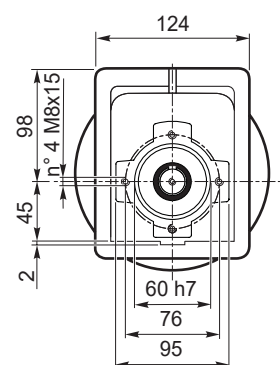
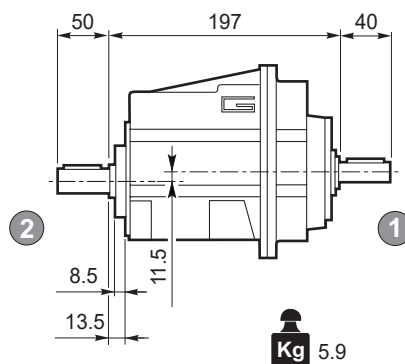
Preferencial / *Preferencial* / Preferred

• Combinaciones posibles H/F / *Combinações possíveis H/F* / Possible combinations H/F

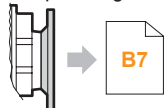
Versión F / Versão F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
012 013	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8

**CMG**

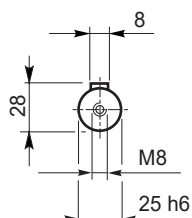
Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz**Dimensiones****Dimensões****Dimensions****CMG 022 U - CMG 023 U****CMG 022 U****CMGIS 022 U**

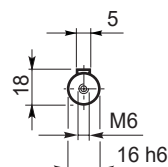
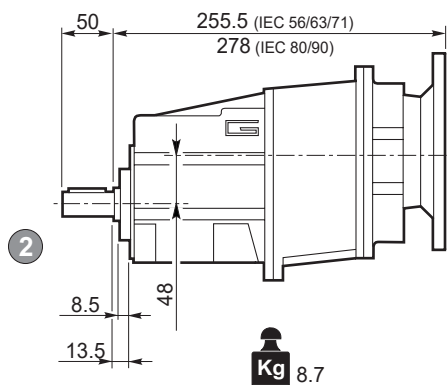
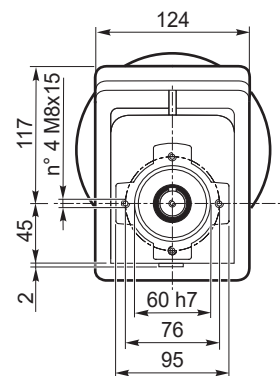
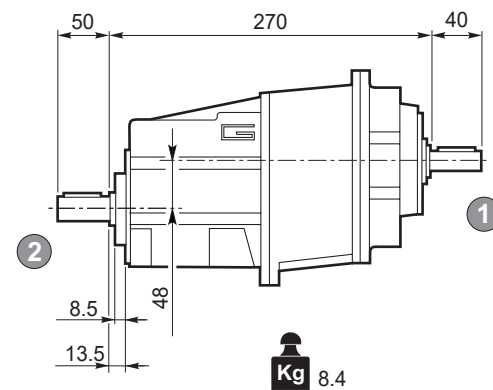
Bridas Motor
Flange do motor
Input flange



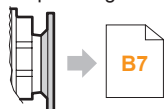
Eje de salida
Eixo saída
Output shaft

2

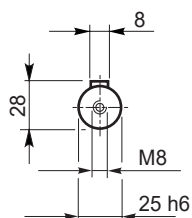
Eje de entrada
Eixo entrada
Input shaft

1**CMG 023 U****CMGIS 023 U**

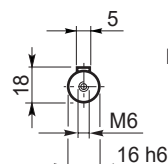
Bridas Motor
Flange do motor
Input flange

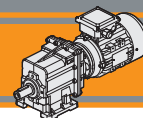


Eje de salida
Eixo saída
Output shaft

2

Eje de entrada
Eixo entrada
Input shaft

1



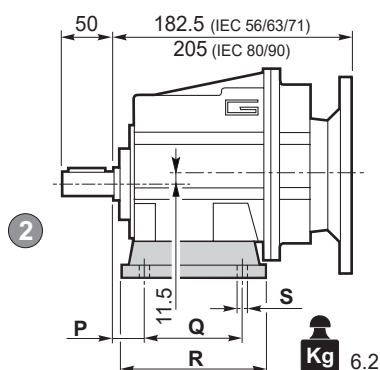
Dimensiones

Dimensões

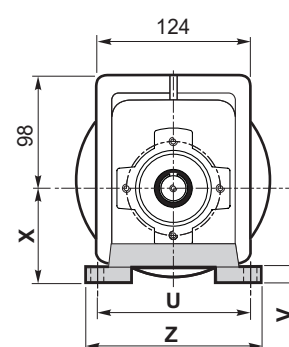
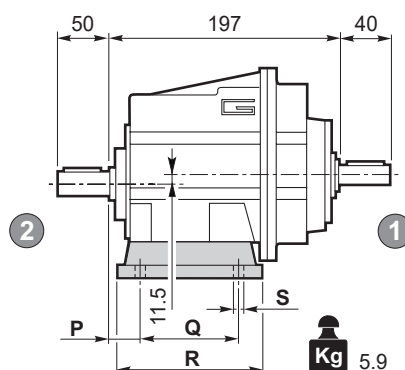
Dimensions

CMG 022 H.. - CMG 023 H..

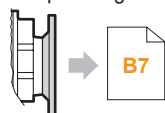
CMG 022 H..



CMGIS 022 H..

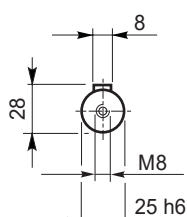


Bridas Motor
 Flange do motor
 Input flange



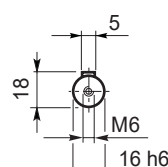
Eje de salida
 Eixo saída
 Output shaft

2

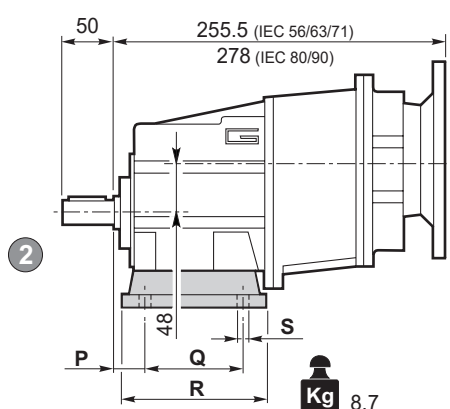


Eje de entrada
 Eixo entrada
 Input shaft

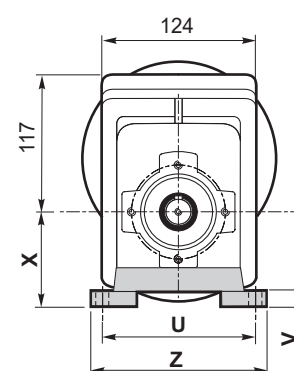
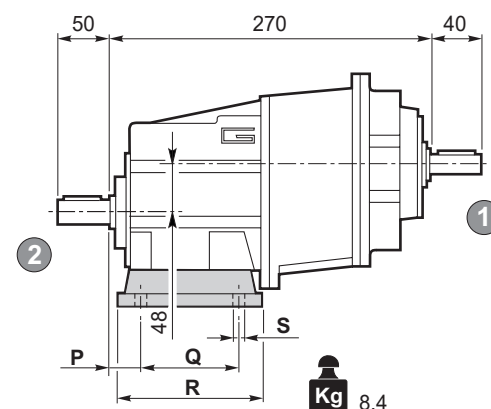
1



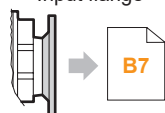
CMG 023 H..



CMGIS 023 H..

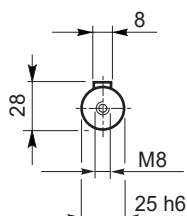


Bridas Motor
 Flange do motor
 Input flange



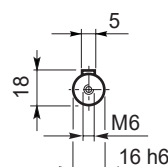
Eje de salida
 Eixo saída
 Output shaft

2



Eje de entrada
 Eixo entrada
 Input shaft

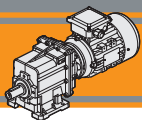
1



Versión H / Versão H / H Version

CMG CMGIS	P	Q	R	S	U	V	X	Z	Patras / Base / Foot	
									Tipo / Tipo / Type	Peso / Peso / Weight [kg]
022 023	20	85	108	9	115	12	65	139	H65	0.7
	18	80	118	9	110	12	75	140	H75	1.0
	25	85	120	9	120	12	80	140	H80	1.1
	18	50 - 87	118	9	110	12	85	130	H85	1.2
	25	130	154	9	110	12	90	135	H90	1.5
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7

Preferencial / Preferencial / Preferred



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

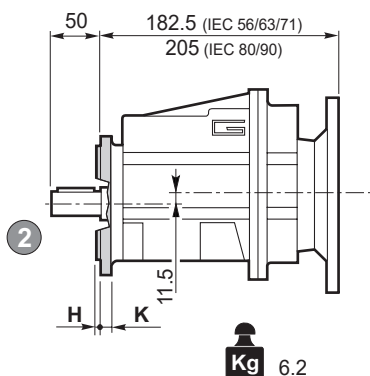
Dimensiones

Dimensões

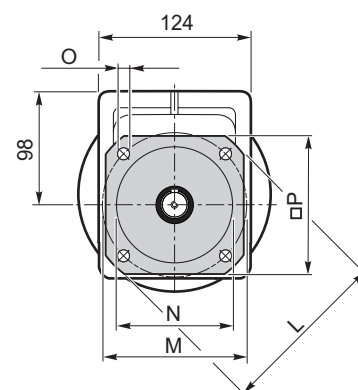
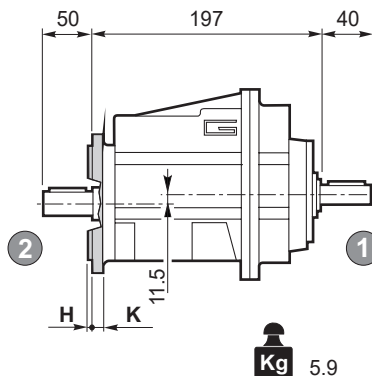
Dimensions

CMG 022 F.. - CMG 023 F..

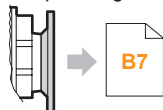
CMG 022 F..



CMGIS 022 F..

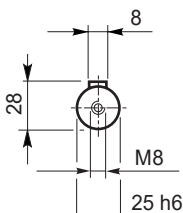


Bridas Motor
Flange do motor
Input flange



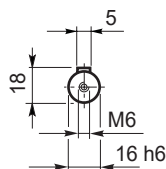
Eje de salida
Eixo saída
Output shaft

2

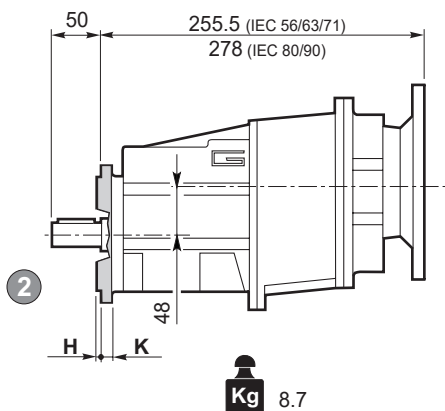


Eje de entrada
Eixo entrada
Input shaft

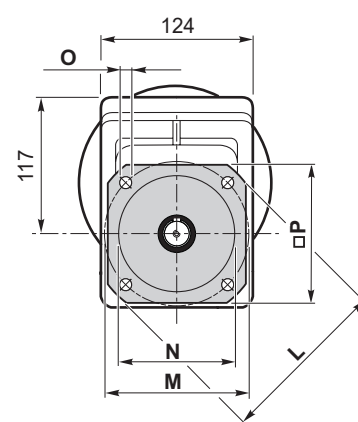
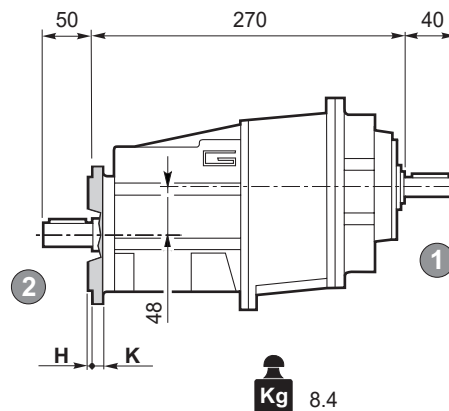
1



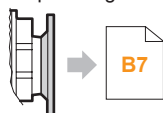
CMG 023 F..



CMGIS 023 F..

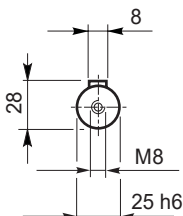


Bridas Motor
Flange do motor
Input flange



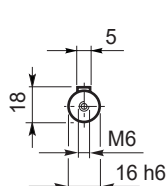
Eje de salida
Eixo saída
Output shaft

2



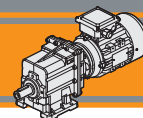
Eje de entrada
Eixo entrada
Input shaft

1



Versión F / Versão F / F Version

CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
022 023	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8



Dimensiones

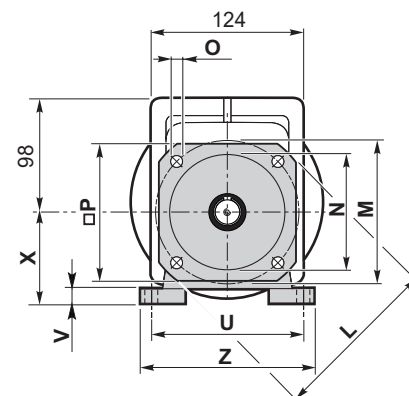
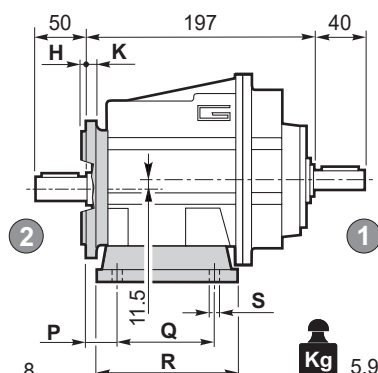
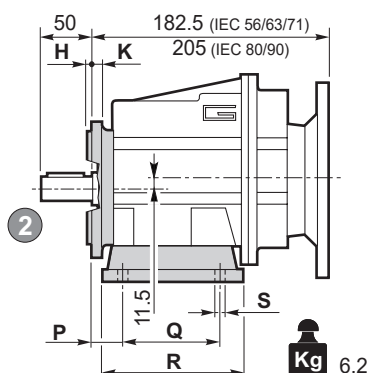
Dimensões

Dimensions

CMG 022 H../F.. - CMG 023 H../F..

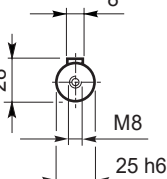
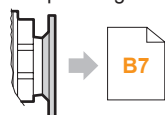
CMG 022 H../F..

CMGIS 022 H../F..

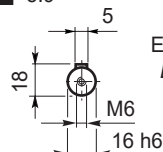


Bridas Motor
Flange do motor
Input flange

Eje de salida
Eixo saída
Output shaft



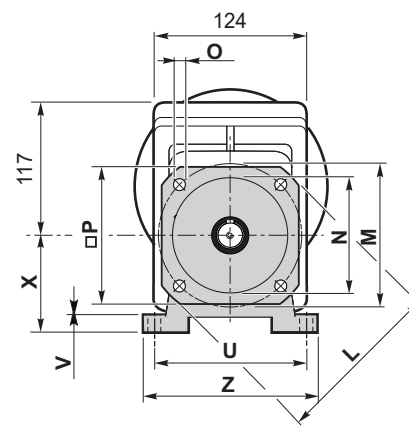
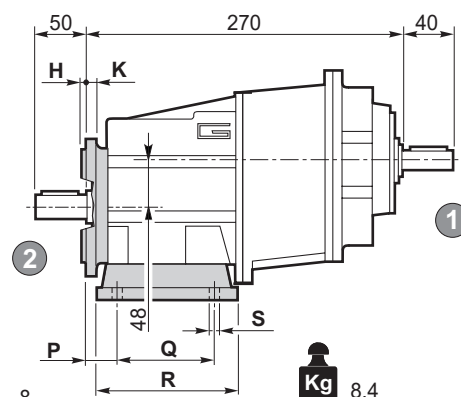
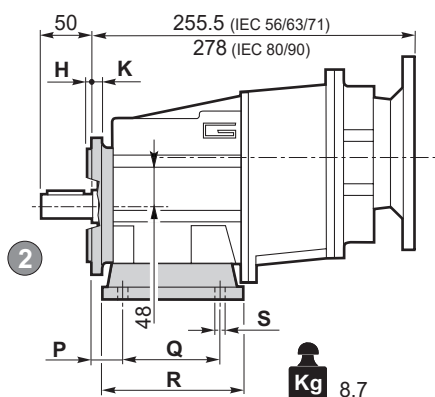
Kg 5.9



Eje de entrada
Eixo entrada
Input shaft

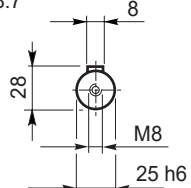
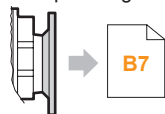
**CMG 023 H../F..**

CMGIS 023 H../F..

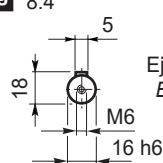


Bridas Motor
Flange do motor
Input flange

Eje de salida
Eixo saída
Output shaft



Kg 8.4



Eje de entrada
Eixo entrada
Input shaft

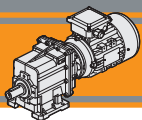


Versión H / Versão H / H Version											Combinaciones posibles H/F Combinações possíveis H/F Possible combinations H/F			
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot		F120	F140	F160	F200
									Typo / Tipo / Type	 Kg				
022 023	20	85	108	9	115	12	65	139	H65	0.7	●	●		
	18	80	118	9	110	12	75	140	H75	1.0	●	●	●	
	25	85	120	9	120	12	80	140	H80	1.1	●	●	●	
	18	50 - 87	118	9	110	12	85	130	H85	1.2	●	●	●	
	25	130	154	9	110	12	90	135	H90	1.5	●	●	●	●
	18	60 - 107.5	135	11	130	12	100	155	H100	1.7	●	●	●	●

Preferencial / *Preferencial* / Preferred

● Combinaciones posibles H/F / *Combinações possíveis H/F* / Possible combinations H/F

Versión F / Versão F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
022 023	3	9	120	100	80	9	106	F120	0.5
	3.5	9	140	115	95	9	115	F140	0.8
	3.5	9	160	130	110	9	126	F160	1.1
	3.5	11	200	165	130	11	165	F200	1.8



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

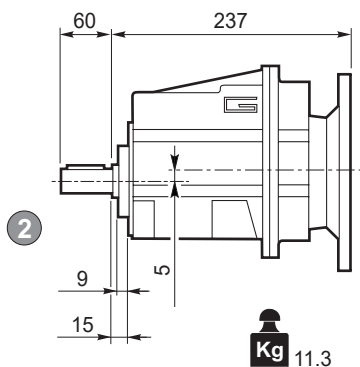
Dimensiones

Dimensões

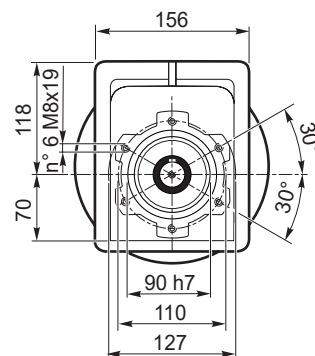
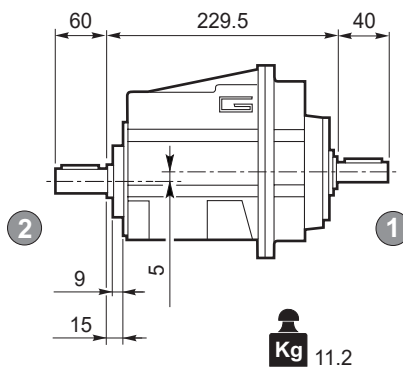
Dimensions

CMG 032 U - CMG 033 U

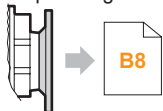
CMG 032 U



CMGIS 032 U

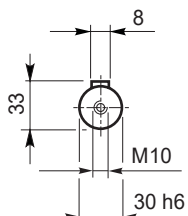


Bridas Motor
Flange do motor
Input flange



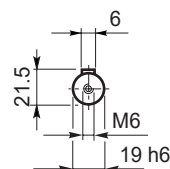
Eje de salida
Eixo saída
Output shaft

2

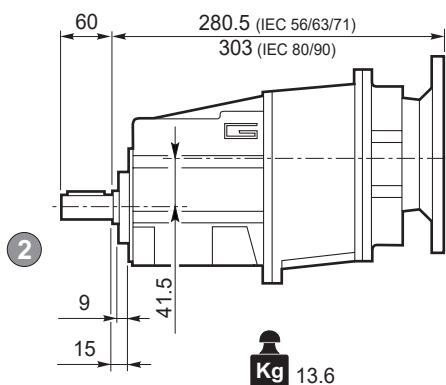


Eje de entrada
Eixo entrada
Input shaft

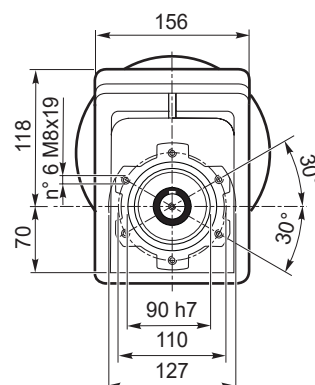
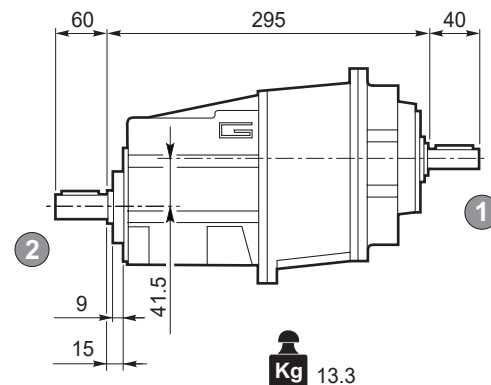
1



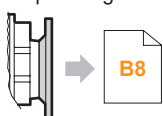
CMG 033 U



CMGIS 033 U

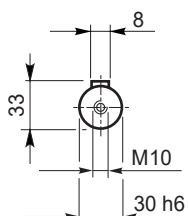


Bridas Motor
Flange do motor
Input flange



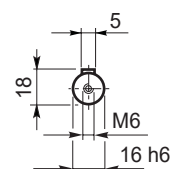
Eje de salida
Eixo saída
Output shaft

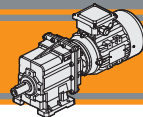
2



Eje de entrada
Eixo entrada
Input shaft

1





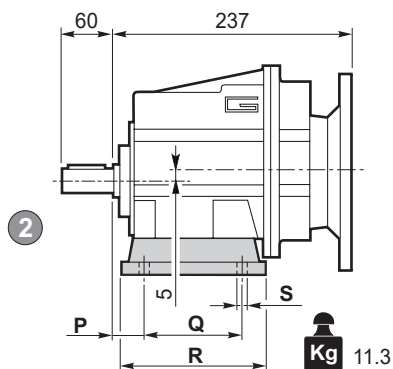
Dimensiones

Dimensões

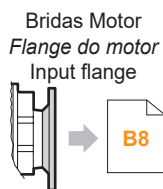
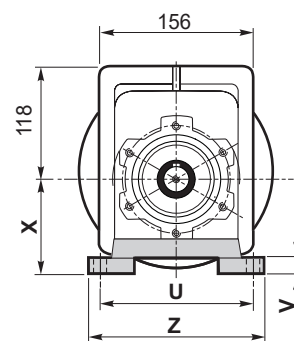
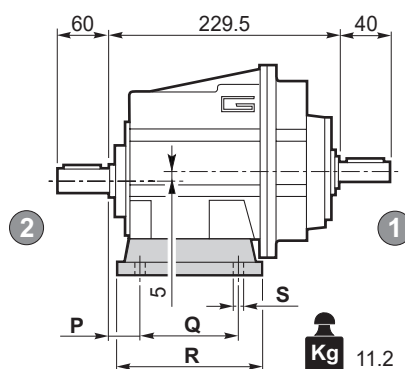
Dimensions

CMG 032 H.. - CMG 033 H..

CMG 032 H..

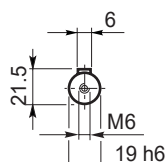
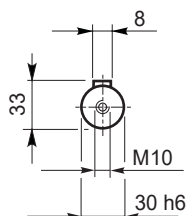


CMGIS 032 H..



Eje de salida
Eixo saída
Output shaft

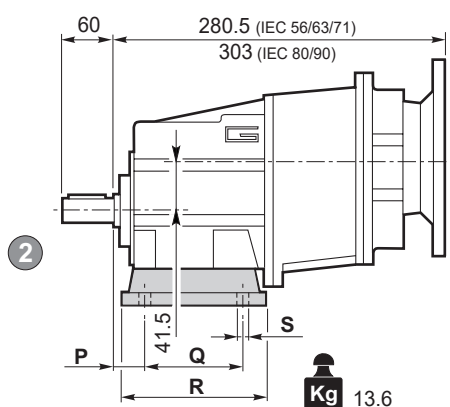
2



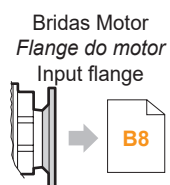
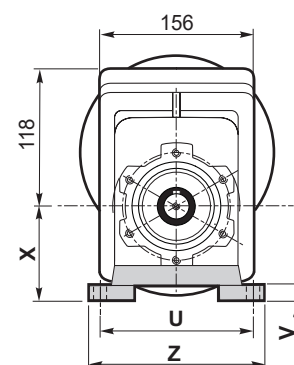
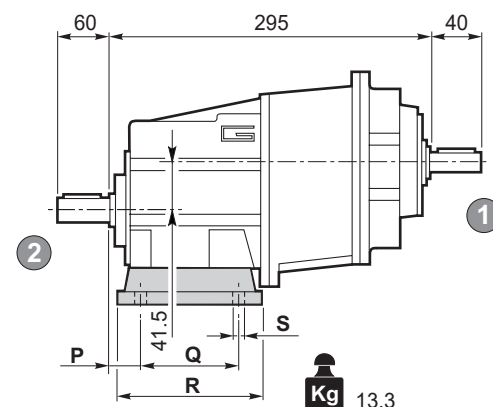
Eje de entrada
Eixo entrada
Input shaft

1

CMG 033 H..

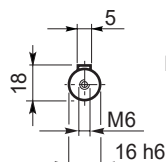
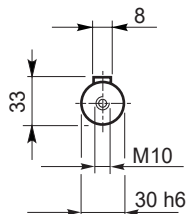


CMGIS 033 H..



Eje de salida
Eixo saída
Output shaft

2



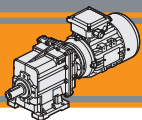
Eje de entrada
Eixo entrada
Input shaft

1

Versión H / Versão H / H Version

CMG CMGIS	P	Q	R	S	U	V	X	Z	Patás / Base / Foot	
									Tipo / Tipo / Type	Peso / Peso / Weight [kg]
032 033	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
	19.5	149.5	184	14	180	18	130	214	H130	2.9

Preferencial / Preferencial / Preferred



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

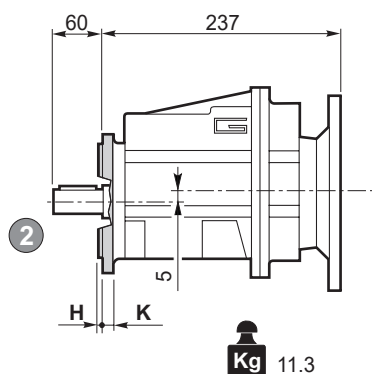
Dimensiones

Dimensões

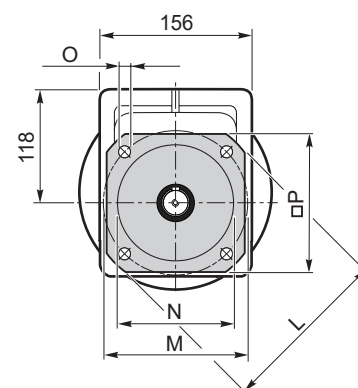
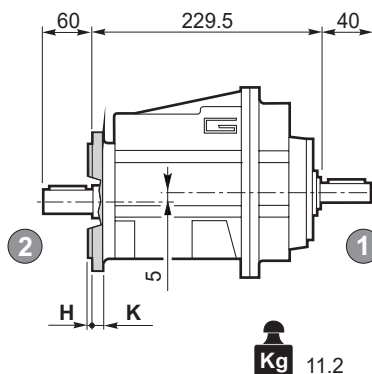
Dimensions

CMG 032 F.. - CMG 033 F..

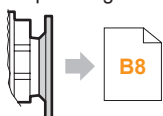
CMG 032 F..



CMGIS 032 F..

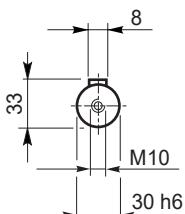


Bridas Motor
Flange do motor
Input flange



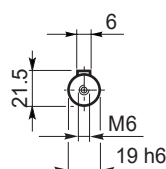
Eje de salida
Eixo saída
Output shaft

2

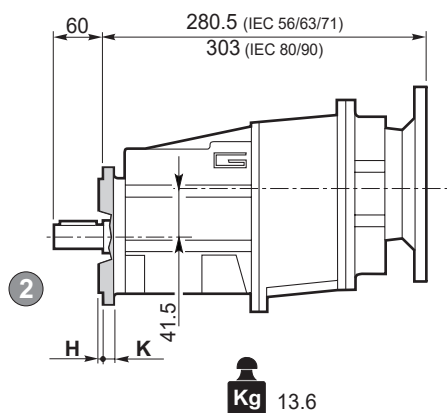


Eje de entrada
Eixo entrada
Input shaft

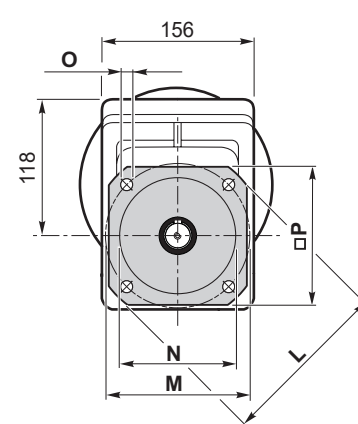
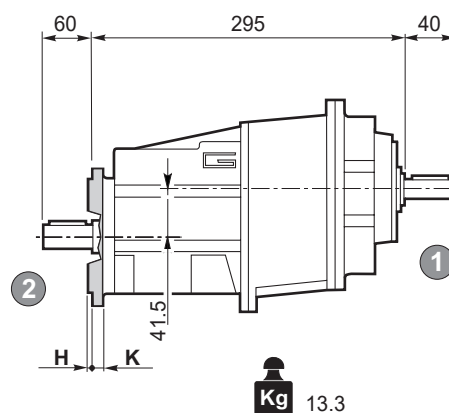
1



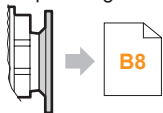
CMG 033 F..



CMGIS 033 F..

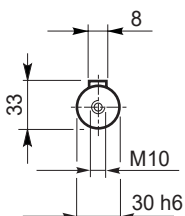


Bridas Motor
Flange do motor
Input flange



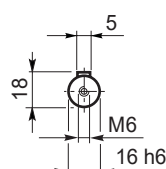
Eje de salida
Eixo saída
Output shaft

2



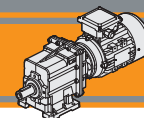
Eje de entrada
Eixo entrada
Input shaft

1



Versión F / Versão F / F Version

CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
032 033	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9



Dimensiones

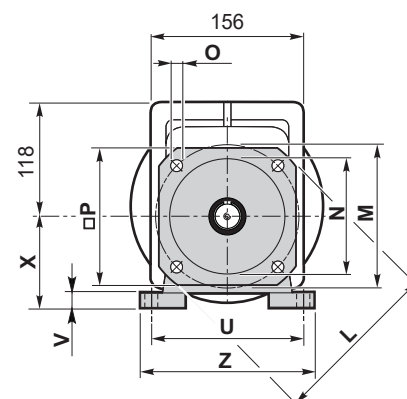
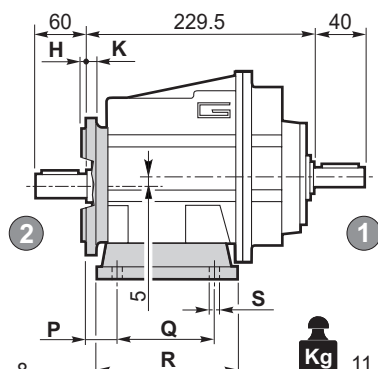
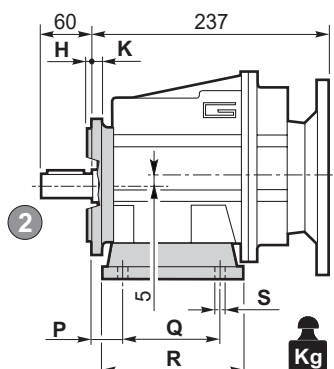
Dimensões

Dimensions

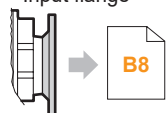
CMG 032 H../F.. - CMG 033 H../F..

CMG 032 H../F..

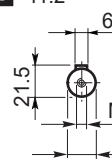
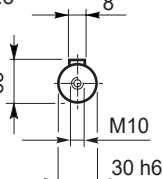
CMGIS 032 H../F..



Bridas Motor
Flange do motor
Input flange



Eje de salida
Eixo saída
Output shaft

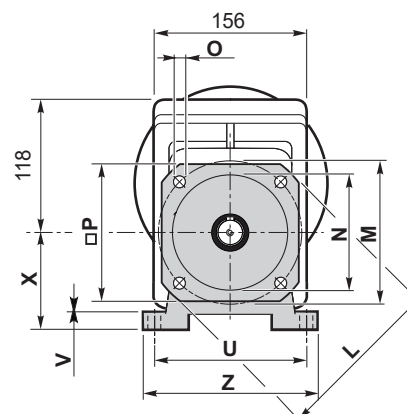
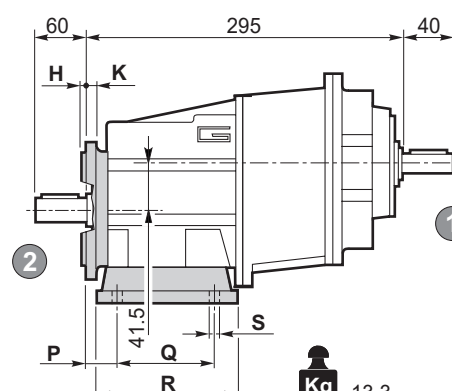
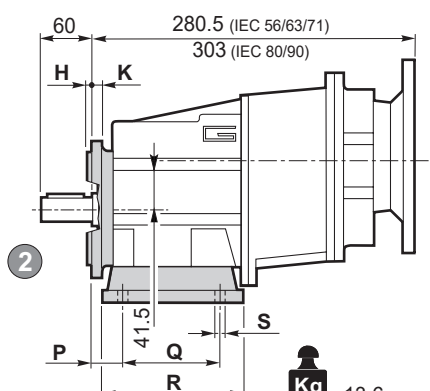


Eje de entrada
Eixo entrada
Input shaft

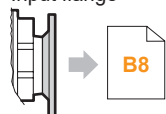


CMG 033 H../F..

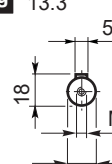
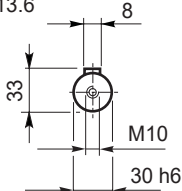
CMGIS 033 H../F..



Bridas Motor
Flange do motor
Input flange



Eje de salida
Eixo saída
Output shaft



Eje de entrada
Eixo entrada
Input shaft

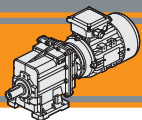


Versión H / Versão H / H Version											Combinazioni possibili H/F Possible combinations H/F		
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot		F160	F200	F250
									Tipo / Tipo / Type	 Kg			
032 033	30	105	136	14	160	14	95	194	H95	1.5	●	●	
	30	100	150	11	150	14	110	185	H110	1.9	●	●	
	18	70											
	30	165	195	14	135	14	115	170	H115	2.2	●	●	●
	35	110	160	14	170	14	120	210	H120	2.6	●	●	●
	19.5	149.5	184	14	180	18	130	214	H130	2.9	●	●	●

Preferencial / Preferencial / Preferred

• Combinaciones posibles H/F / Combinações possíveis H/F / Possible combinations H/F

Versión F / Versão F / F Version									Brida / Flange / Flange	
CMG CMGIS	H	K	L	M	N f7	O	P		Tipo / Tipo / Type	
									Peso / Peso / Weight [kg]	
032 033	3.5	11	160	130	110	9	140		F160	1.0
	3.5	11	200	165	130	11	165		F200	1.8
	4	13	250	215	180	14	215		F250	2.9



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

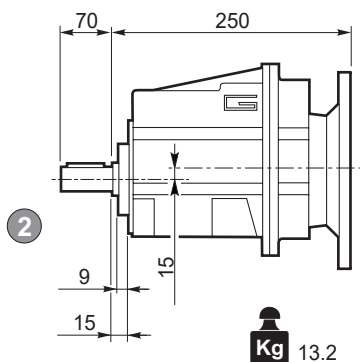
Dimensiones

Dimensões

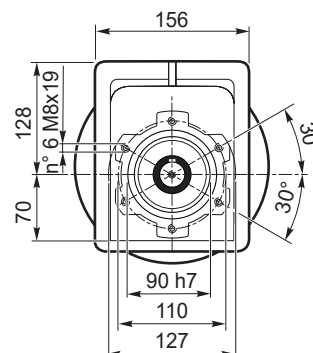
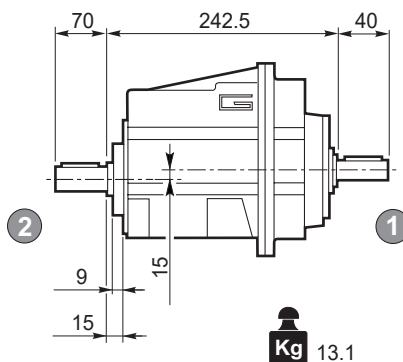
Dimensions

CMG 042 U - CMG 043 U

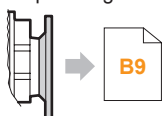
CMG 042 U



CMGIS 042 U

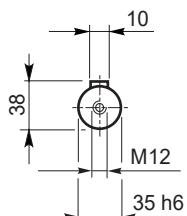


Bridas Motor
Flange do motor
Input flange



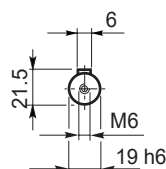
Eje de salida
Eixo saída
Output shaft

2

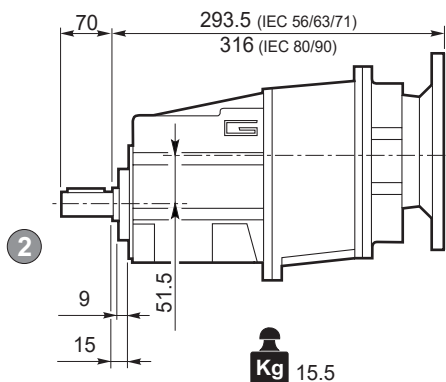


Eje de entrada
Eixo entrada
Input shaft

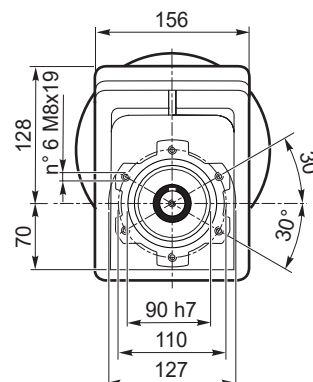
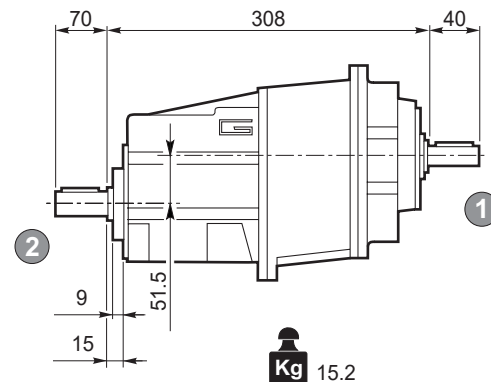
1



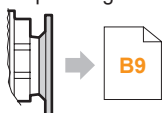
CMG 043 U



CMGIS 043 U

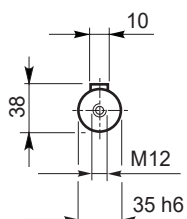


Bridas Motor
Flange do motor
Input flange



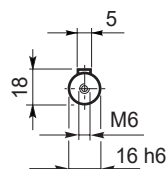
Eje de salida
Eixo saída
Output shaft

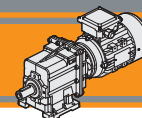
2



Eje de entrada
Eixo entrada
Input shaft

1





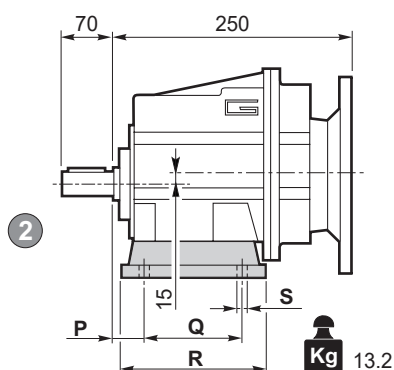
Dimensiones

Dimensões

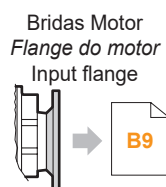
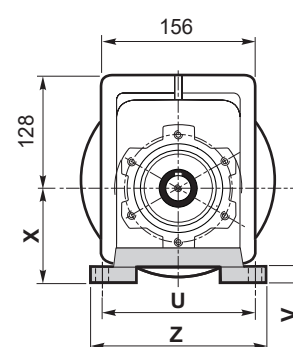
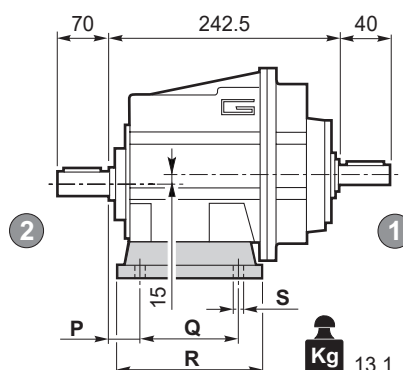
Dimensions

CMG 042 H.. - CMG 043 H..

CMG 042 H..

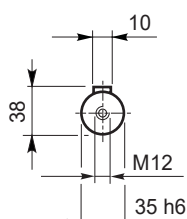


CMGIS 042 H..



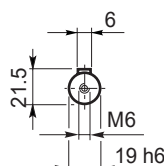
Eje de salida
Eixo saída
Output shaft

2

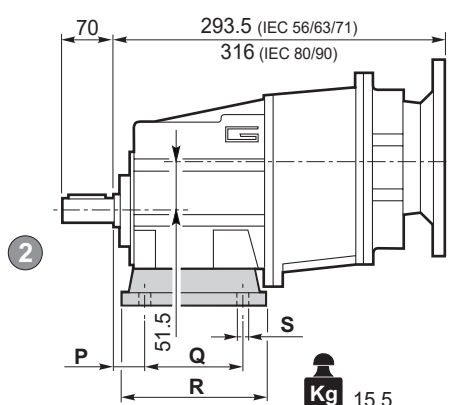


Eje de entrada
Eixo entrada
Input shaft

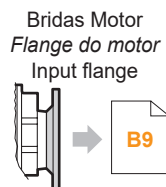
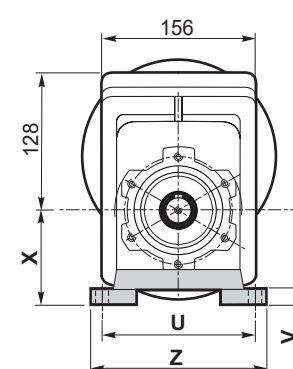
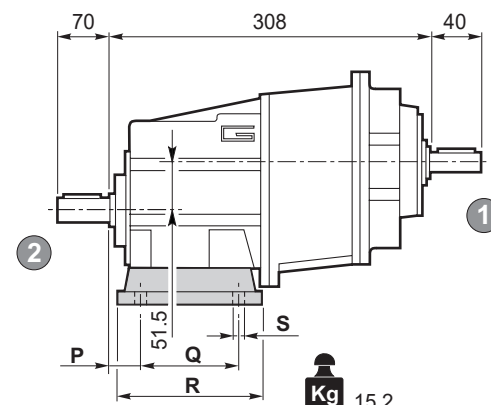
1



CMG 043 H..

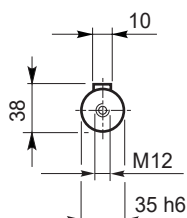


CMGIS 043 H..



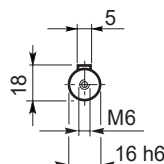
Eje de salida
Eixo saída
Output shaft

2



Eje de entrada
Eixo entrada
Input shaft

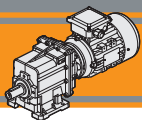
1



Versión H / Versão H / H Version

CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot	
									Tipo / Tipo / Type	Peso / Peso / Weight [kg]
042 043	30	105	136	14	160	14	95	194	H95	1.5
	30	100	150	11	150	14	110	185	H110	1.9
	18	70			160					
	30	165	195	14	135	14	115	170	H115	2.2
	35	110	160	14	170	14	120	210	H120	2.6
	19.5	149.5	184	14	180	18	130	214	H130	2.9

Preferencial / Preferencial / Preferred



CMG

Motorreductores de engranajes cilíndricos
Motoredutores de engrenagens helicoidais
Helical in-line gearmotors

60 Hz

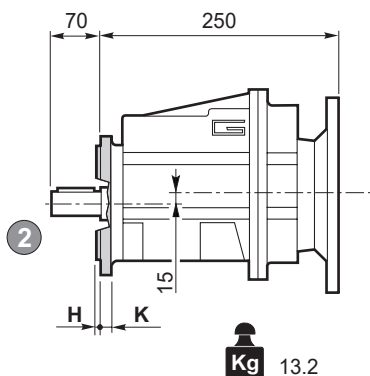
Dimensiones

Dimensões

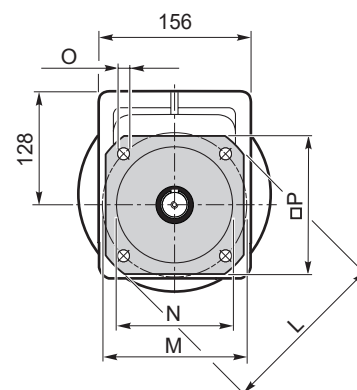
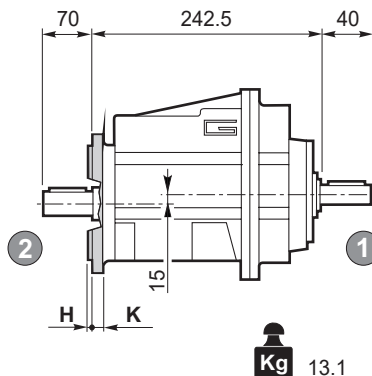
Dimensions

CMG 042 F.. - CMG 043 F..

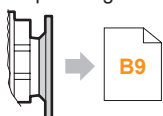
CMG 042 F..



CMGIS 042 F..

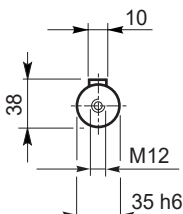


Bridas Motor
Flange do motor
Input flange



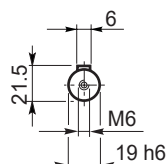
Eje de salida
Eixo saída
Output shaft

2

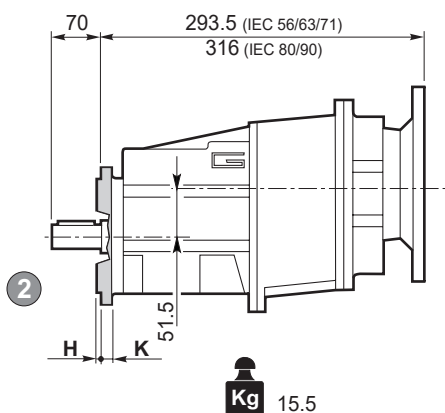


Eje de entrada
Eixo entrada
Input shaft

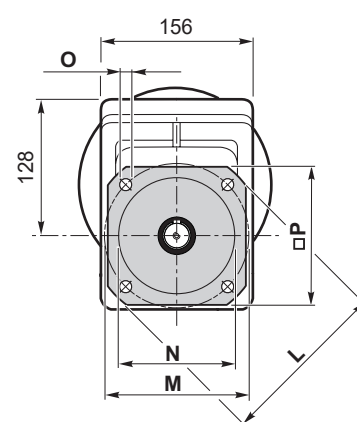
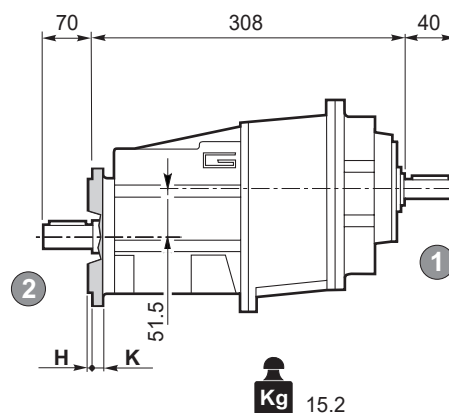
1



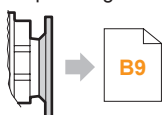
CMG 043 F..



CMGIS 043 F..

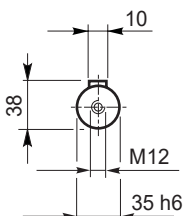


Bridas Motor
Flange do motor
Input flange



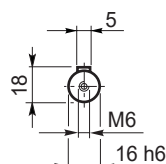
Eje de salida
Eixo saída
Output shaft

2



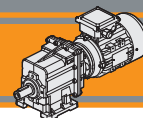
Eje de entrada
Eixo entrada
Input shaft

1



Versión F / Versão F / F Version

CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
042 043	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9



Dimensiones

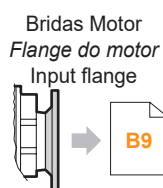
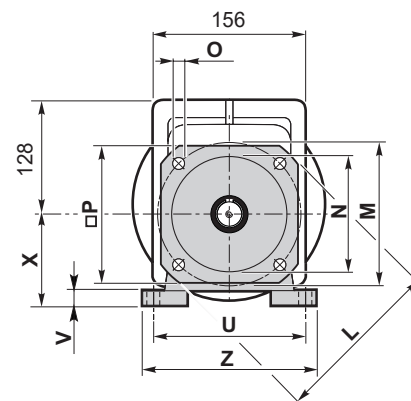
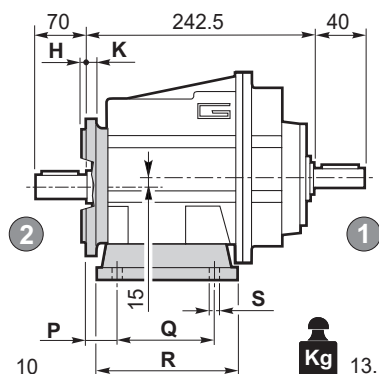
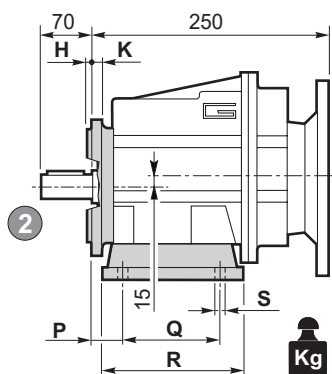
Dimensões

Dimensions

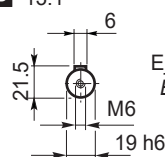
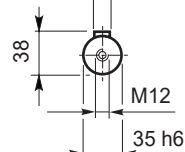
CMG 042 H../F.. - CMG 043 H../F..

CMG 042 H../F..

CMGIS 042 H../F..



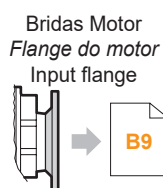
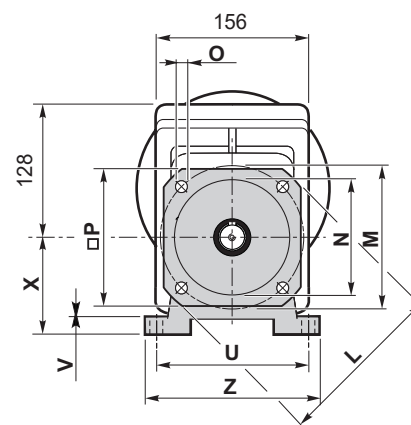
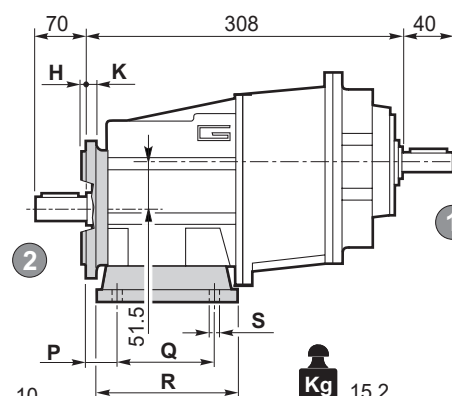
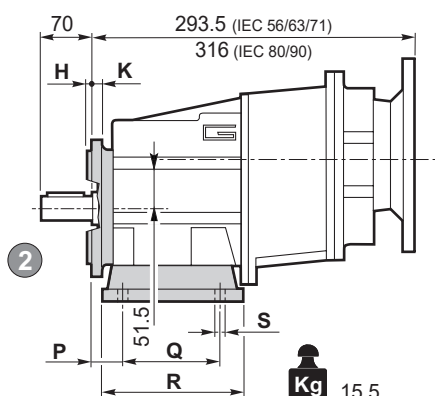
Eje de salida
Eixo saída
Output shaft



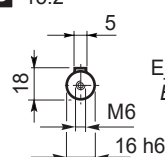
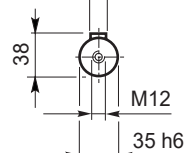
Eje de entrada
Eixo entrada
Input shaft

CMG 043 H../F..

CMGIS 043 H../F..



Eje de salida
Eixo saída
Output shaft



Eje de entrada
Eixo entrada
Input shaft

Versión H / Versão H / H Version											Combinaciones posibles H/F Combinações possíveis H/F Possible combinations H/F		
CMG CMGIS	P	Q	R	S	U	V	X	Z	Patas / Base / Foot				
									Tipo / Tipo / Type	 Kg	F160	F200	F250
042 043	30	105	136	14	160	14	95	194	H95	1.5	●	●	
	30	100	150	11	150	14	110	185	H110	1.9	●	●	
	18	70			160								
	30	165	195	14	135	14	115	170	H115	2.2	●	●	●
	35	110	160	14	170	14	120	210	H120	2.6	●	●	●
	19.5	149.5	184	14	180	18	130	214	H130	2.9	●	●	●

Preferencial / Preferencial / Preferred

• Combinaciones posibles H/F / Combinações possíveis H/F / Possible combinations H/F

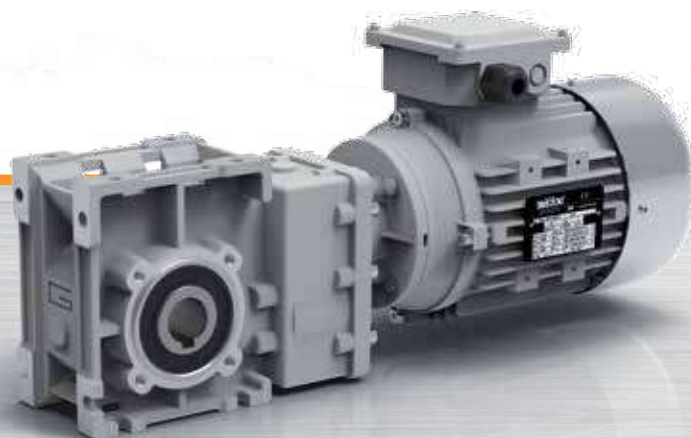
Versión F / Versão F / F Version									
CMG CMGIS	H	K	L	M	N f7	O	P	Brida / Flange / Flange	
								Tipo / Tipo / Type	Peso / Peso / Weight [kg]
042 043	3.5	11	160	130	110	9	140	F160	1.0
	3.5	11	200	165	130	11	165	F200	1.8
	4	13	250	215	180	14	215	F250	2.9

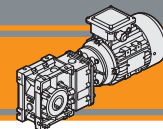


60 Hz

B36

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors



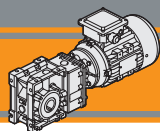


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Clasificación	<i>Designação</i>	Classification	C2
Sentidos de rotación	<i>Sentidos de rotação</i>	Direction of rotation	C3
Nomenclatura	<i>Simbologia</i>	Legend	C3
Lubricación	<i>Lubrificação</i>	Lubrication	C3
Cargas radiales	<i>Cargas radiais</i>	Radial loads	C4
Datos técnicos	<i>Dados técnicos</i>	Technical data	C5
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**CMB**

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz**Características técnicas**

Los motoredutores de ejes ortogonales serie CMB se caracterizan por un alto grado de modularidad, de hecho, fueron desarrollados con una carcasa completamente intercambiable con la de los reductores de tornillo sinfin de la serie CM. Por lo tanto, se configuran de acuerdo con las necesidades de la aplicación: con brida de salida, eje de salida, brazo de reacción.

Características comunes a toda la serie:

- Carcasa en aluminio en los tamaños.
- Engranajes siempre rectificadas.
- Lubricación permanente con aceite sintético de larga vida.

Características técnicas

Os motoredutores CMB, são caracterizados por um elevado grau de modularidade: sua carcaça é completamente intercambiável com a série CM (rosca sem-fim). Eles são configurados de acordo com as necessidades da aplicação, com flange de saída, eixo de saída ou braço de torção.

Características comuns a toda a série:

- Carcaça em alumínio nos tamanhos.
- Lubrificação permanente com óleo sintético.
- Lubrificação permanente com óleo sintético

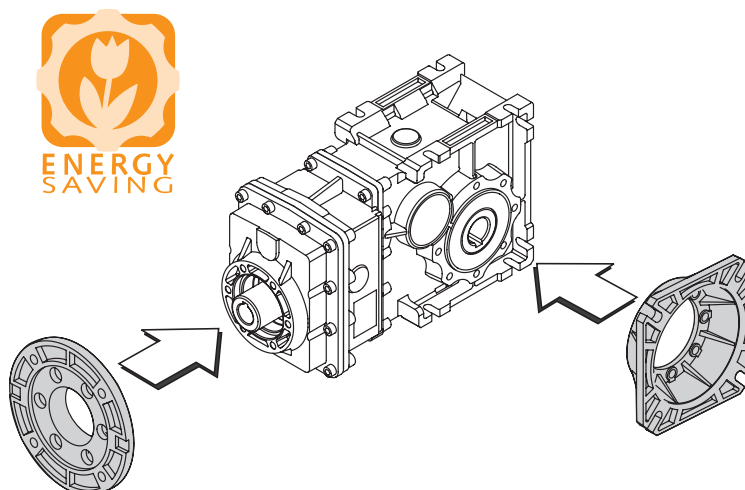
Technical features

The high degree of modularity of CMB helical bevel gearmotors allows it to be completely interchangeable with CM wormgearboxes.

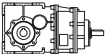
It is possible to set up the version required using output flanges, output shafts and optional torque arms.

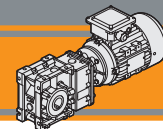
Common features of all CMB range are:

- Die-cast aluminum housing.
- Ground helical gears.
- Permanent synthetic oil long-life lubrication.

**Clasificación****Designação****Classification**

REDUCTOR / REDUTOR / GEARBOX										
CMB	63 3	U	9.81	D25	90	B5	SZDX	BRSX	90	
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	IEC 	Forma constructiva Forma construtiva Version	ø Eje de salida ø Eixo saída ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle
CMB 	40 50 63 90	2 3	U FD FS FBD FBS FLD FLS	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	56.. — 90..	B5 B14	SZDX SZSX DZ	BRDX BRSX 	0° 90° 180° 270°

REDUCTOR / REDUTOR / GEARBOX								
CMBIS	63 3		U	9.81	D25	SZDX	BRSX	90
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	ø Eje de salida ø Eixo saída ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle
CMBIS	40 50 63 90	2 3	U FD FS FBD FBS FLD FLS	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	SZDX SZSX DZ	BRDX BRSX ⬠	0° 90° 180° 270°
								



Clasificación

Designação

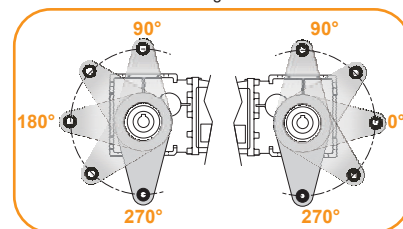
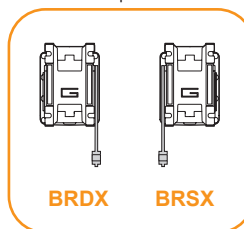
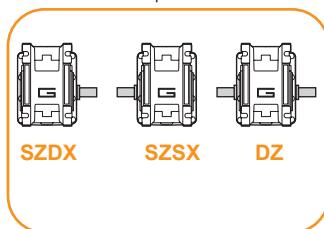
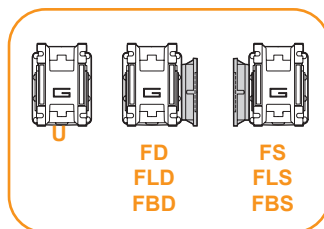
Classification

Relación de reducción
 Versão Redutor
 Gearbox Version

Eje de salida
 Eixo de saída
 Output shaft

Brazo de reacción
 Braço de reação
 Torque arm

Ángulo
 Ângulo
 Angle



NOTA: el brazo de reacción se suministra desmontado.

* NOTA: o braço de reação é fornecido desmontado.

NOTE: the torque arm will be supplied not assembled.

MOTOR / MOTOR / MOTOR

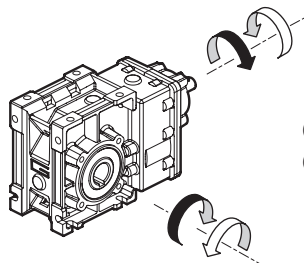
0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Veja tabelas Véase tablas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	T1 (Std) T4 T2 T3

Sentidos de rotación

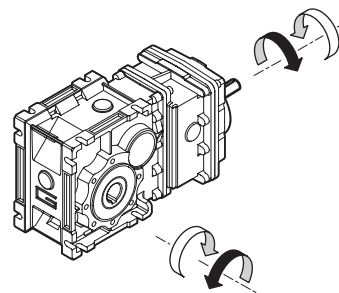
Sentidos de rotação

Direction of rotation

CMB...2
 CMBIS..2



CMB...3
 CMBIS..3

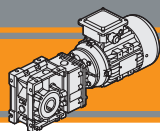


Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / Velocidade na entrada / Input speed
n_2	[rpm]	Velocidad de salida / Velocidade na saída / Output speed
i		Relación de reducción / Relação de redução / Ratio
P_1	[kW]	Potencia en la entrada / Potência da entrada / Input power
M_2	[Nm]	Par en la salida en función de P_1 / Torque na saída em função de P_1 / Output torque referred to P_1
P_{n1}	[kW]	Potencia nominal en la entrada / Potência nominal na entrada / Nominal input power
M_{n2}	[Nm]	Par nominal en la salida en función de P_{n1} / Torque nominal na saída em função de P_{n1} / Nominal output torque referred to P_{n1}
sf		Factor de servicio / Fator de serviço / Service factor
R_2	[N]	Carga radial admisible en la salida / Carga radial admissível na saída / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / Carga axial admissível na saída / Maximum output axial load



CMB

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz

Lubricación

Todos los motoredutores de ejes ortogonales se suministran con lubricante sintético, viscosidad 320, por lo que se pueden instalar en cualquier posición de montaje y no requieren mantenimiento.

Lubrificação

Todos os são fornecidos com lubrificante sintético, viscosidade 320, de modo que possam ser instalado em qualquer posição.

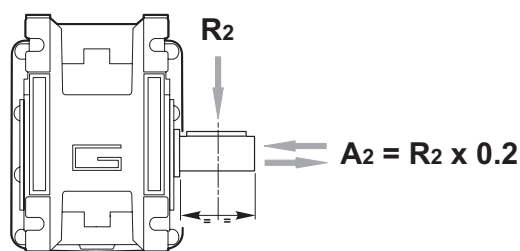
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use CMB gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads

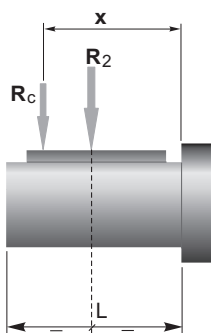


n ₂ [min ⁻¹]	R ₂ [N]			
	CMB 402	CMB 502	CMB 633	CMB 903
400	905	1116	1835	2682
300	996	1228	2020	2952
200	1141	1406	2312	3379
170	1204	1484	2441	3567
140	1414	1743	2604	3806
100	1582	1949	2913	4686
90	1638	2019	3321	4853
60	2047	2490	3801	5556
40	2524	3029	4492	6614
30	2778	3334	5159	7540
20	3180	3816	5906	8631
15	3500	4200	6500	9500
10	3500	4200	6500	9500

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

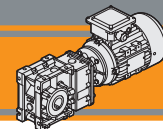


	CMB 402	CMB 502	CMB 633	CMB 903
a	86	104	118	157
b	66	79	93	117
R_{2MAX}	3500	4200	6500	9500

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table

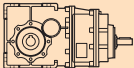


Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
---	-------------------------------	----------------	----------------	---

CMBIS 402

283	40	1.3	6.18
234	40	1.0	7.49
190	40	0.85	9.20
148	45	0.74	11.83
140	45	0.70	12.48
118	45	0.59	14.83
99	45	0.50	17.63
94	55	0.58	18.60
78	55	0.48	22.33
73	55	0.45	23.91
61	65	0.44	28.89
57	65	0.41	30.84
52	65	0.38	33.57
49	65	0.36	35.63
41	65	0.30	42.75
32	65	0.23	55.31
30	65	0.21	59.06
27	65	0.20	64.29
24	65	0.17	72.50

IEC Motores aplicables
 IEC Motores aplicáveis
 IEC Motor adapters

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
			*
			*
			*
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			*
			*
		*	*
		*	*
		*	*
		*	*
		*	*

CMBIS 502

283	70	2.2	6.18
234	70	1.8	7.49
190	70	1.5	9.20
148	90	1.5	11.83
140	90	1.4	12.48
118	90	1.2	14.83
99	90	1.0	17.63
94	110	1.2	18.60
78	110	0.96	22.33
73	110	0.90	23.91
61	125	0.84	28.89
57	125	0.79	30.84
52	125	0.73	33.57
49	125	0.68	35.63
41	125	0.57	42.75
32	125	0.44	55.31
30	125	0.41	59.06
27	125	0.38	64.29
24	125	0.34	72.50

56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14
			*
			*
			*
			*
			*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



* =El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico



* =O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

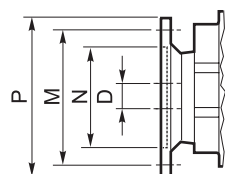


* =The service factor (sf) has to be selected depending on application: please contact our Technical Department.

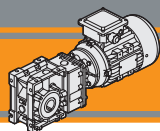
Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas C8 a la C11.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas C8 a pag. C11.

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



IEC Dimension / IEC Dimensões / IEC Dimensions								
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14
N	80	50	95	60	110	70	130	80
M	100	65	115	75	130	85	165	100
P	120	80	140	90	160	105	200	120
D	9		11		14		19	



CMB

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

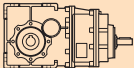
60 Hz

Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters				
CMBIS 633					56 B5/B14	63 B5/B14	71 B5/B14	80 B5/B14	90 B5/B14
	266	150	4.4	6.58					
	219	150	3.7	7.99					
	178	150	3.0	9.81					
	168	150	2.8	10.44					
	140	150	2.3	12.53					
	131	150	2.2	13.31					
	111	170	2.1	15.81					
	98	220	2.4	17.77					
	81	220	2.0	21.56					
	66	220	1.6	26.48					
	62	220	1.5	28.17					
	52	220	1.3	33.81					
	49	220	1.2	35.92					*
	45	250	1.3	38.88					*
	37	250	1.0	47.16					*
	30	250	0.84	57.93					*
	28	250	0.79	61.63					*
	24	250	0.66	73.96					*
	22	250	0.62	78.58				*	*
	19	250	0.52	93.33				*	*
	12	250	0.35	140.52				*	*
	9.6	250	0.27	181.81			*	*	*
	8.3	250	0.23	211.31			*	*	*
	7.3	250	0.20	238.31			*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.



* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico



* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

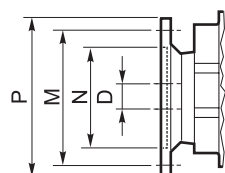


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

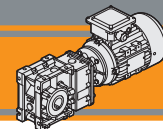
Antes de seleccionar cualquier reductor, favor de revisar los valores dedesempeño en las páginas C8 a la C11.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas C8 a pag. C11.

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.



IEC Dimension / IEC Dimensões / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
D	9		11		14		19		24	

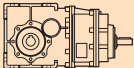


Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i	IEC Motores aplicables IEC Motores aplicáveis IEC Motor adapters			
					71 B5	80 B5/B14	90 B5/B14	100/112 B5/B14
CMBIS 903								
	263	280	8.2	6.65	B			
	219	280	6.8	8.00	B			
	180	280	5.6	9.74	B			
	156	280	4.9	11.21	B			
	124	300	4.1	14.09	B			
	98	450	4.9	17.95	B			
	81	450	4.1	21.60	B			
	67	450	3.3	26.30	B			
	58	450	2.9	30.25	B			
	45	500	2.5	39.26	B			*
	37	500	2.1	47.25	B			*
	30	500	1.7	57.52	B			*
	26	500	1.5	66.17	B			*
	21	500	1.2	83.20	B		*	*
	16	500	0.90	108.09	B		*	*
	13	500	0.74	132.23	B		*	*
	12	500	0.66	147.92	B		*	*
	10	500	0.58	167.09	B	*	*	*
	9.2	500	0.51	191.06	B	*	*	*
	7.9	500	0.44	221.88	B	*	*	*
	6.7	500	0.37	262.96	B	*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.



* = El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.



* = O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

N.B.

Highlighted areas indicate motor inputs available on each size of unit.

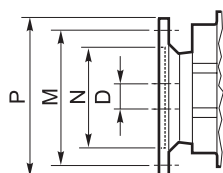


* = The service factor (sf) has to be selected depending on application: please contact our Technical Department.

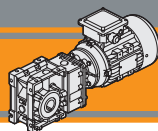
Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas C8 a la C11.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas C8 a pag. C11.

Before selecting any gearbox, please read the performance values shown in the tables on page C8 to C11.

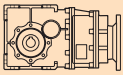
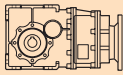


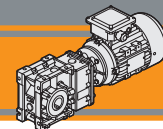
IEC Dimension / IEC Dimensões / IEC Dimensions							
	71 B5	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	110	130	80	130	95	180	110
M	130	165	100	165	115	215	130
P	160	200	120	200	140	250	160
D	14	19		24		28	

**CMB**

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

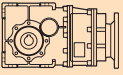
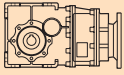
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.09							0.12							
(0.12 hp)	283	2.9	14.0	6.18	CMB402	B5/B14	(0.16 hp)	24	46	5.5	73.96	CMB633	B5/B14	
56B4 (1750 min ⁻¹)	234	3.5	11.6	7.49		B5/B14	63A4 (1750 min ⁻¹)	22	48	5.2	78.58		B5/B14	
	190	4.2	9.4	9.20		B5/B14		19	57	4.4	93.33		B5/B14	
	148	5.5	8.2	11.83		B5/B14		12	86	2.9	140.52		B5/B14	
	140	5.8	7.8	12.48		B5/B14		10	112	2.2	181.81		B5/B14	
	118	6.8	6.6	14.83		B5/B14		8.3	130	1.9	211.31		B5/B14	
	99	8.1	5.5	17.63		B5/B14		7.3	147	1.7	238.31		B5/B14	
	94	8.6	6.4	18.60		B5/B14								
	78	10	5.3	22.33		B5/B14								
	73	11	5.0	23.91		B5/B14								
	61	13	4.9	28.89		B5/B14								
	57	14	4.6	30.84		B5/B14								
	52	15	4.2	33.57		B5/B14								
	49	16	4.0	35.63		B5/B14								
	41	20	3.3	42.75		B5/B14								
	32	26	2.5	55.31		B5/B14								
	30	27	2.4	59.06		B5/B14								
	27	30	2.2	64.29		B5/B14								
	24	33	1.9	72.50		B5/B14								
	32	26	4.9	55.31	CMB502	B5/B14								
	30	27	4.6	59.06		B5/B14								
	27	30	4.2	64.29		B5/B14								
	24	33	3.7	72.50		B5/B14								
	24	34	7.32	73.96	CMB633	B5/B14								
	22	36	6.89	78.58		B5/B14								
	19	43	5.80	93.33		B5/B14								
	13	65	3.85	140.52		B5/B14								
	10	84	2.98	181.81		B5/B14								
	8	98	2.56	211.31		B5/B14								
	7	110	2.27	238.31		B5/B14								
0.12							0.18							
(0.16 hp)	283	3.8	10.5	6.18		CMB402	B5/B14	(0.25 hp)	283	5.7	7.0	6.18	CMB402	B5/B14
63A4 (1750 min ⁻¹)	234	4.6	8.7	7.49			B5/B14	234	6.9	5.8	7.49	B5/B14		
	190	5.7	7.1	9.20	B5/B14		190	8.5	4.7	9.20	B5/B14			
	148	7.3	6.2	11.83	B5/B14		148	11	4.1	11.83	B5/B14			
	140	7.7	5.9	12.48	B5/B14		140	12	3.9	12.48	B5/B14			
	118	9.1	4.9	14.83	B5/B14		118	14	3.3	14.83	B5/B14			
	99	11	4.1	17.63	B5/B14		99	16	2.8	17.63	B5/B14			
	94	11	4.8	18.60	B5/B14		94	17	3.2	18.60	B5/B14			
	78	14	4.0	22.33	B5/B14		78	21	2.7	22.33	B5/B14			
	73	15	3.7	23.91	B5/B14		73	22	2.5	23.91	B5/B14			
	61	18	3.7	28.89	B5/B14		61	27	2.4	28.89	B5/B14			
	57	19	3.4	30.84	B5/B14		57	28	2.3	30.84	B5/B14			
	52	21	3.1	33.57	B5/B14		52	31	2.1	33.57	B5/B14			
	49	22	3.0	35.63	B5/B14		49	33	2.0	35.63	B5/B14			
	41	26	2.5	42.75	B5/B14		41	39	1.6	42.75	B5/B14			
	32	34	1.9	55.31	B5/B14		32	51	1.3	55.31	B5/B14			
	30	36	1.8	59.06	B5/B14		30	55	1.2	59.06	B5/B14			
	27	40	1.6	64.29	B5/B14		27	59	1.1	64.29	B5/B14			
	24	45	1.5	72.50	B5/B14		24	67	1.0	72.50	B5/B14			
	41	26	4.8	42.75	CMB502	B5/B14	57	28	4.4	30.84	CMB502	B5/B14		
	32	34	3.7	55.31		B5/B14	52	31	4.0	33.57		B5/B14		
	30	36	3.4	59.06		B5/B14	49	33	3.8	35.63		B5/B14		
	27	40	3.2	64.29		B5/B14	41	39	3.2	42.75		B5/B14		
	24	45	2.8	72.50		B5/B14	32	51	2.4	55.31		B5/B14		
							30	55	2.3	59.06		B5/B14		
							27	59	2.1	64.29	B5/B14			
							24	67	1.9	72.50	B5/B14			
							30	53	4.7	57.93	CMB633	B5/B14		
							28	57	4.4	61.63		B5/B14		
							24	68	3.7	73.96		B5/B14		
							22	73	3.4	78.58		B5/B14		
							19	86	2.9	93.33		B5/B14		
							12	130	1.9	140.52		B5/B14		
							10	168	1.5	181.81		B5/B14		
							8.3	195	1.3	211.31		B5/B14		
							7.3	220	1.1	238.31		B5/B14		

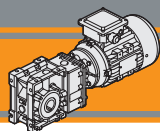


Datos técnicos

Dados técnicos

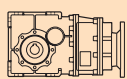
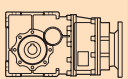
Technical data

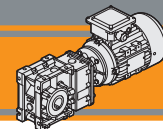
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.25							0.37						
(0.33 hp)	283	7.9	5.1	6.18	CMB402	B5/B14	(0.50 hp)	283	12	3.4	6.18	CMB402	B5/B14
	234	10	4.2	7.49		B5/B14		234	14	2.8	7.49		B5/B14
63C4	190	12	3.4	9.20		B5/B14	71A4	190	17	2.3	9.20		B5/B14
(1750 min ⁻¹)	148	15	3.0	11.83		B5/B14	(1750 min ⁻¹)	148	22	2.0	11.83		B5/B14
	140	16	2.8	12.48		B5/B14		140	24	1.9	12.48		B5/B14
	118	19	2.4	14.83		B5/B14		118	28	1.6	14.83		B5/B14
	99	23	2.0	17.63		B5/B14		99	33	1.3	17.63		B5/B14
	94	24	2.3	18.60		B5/B14		94	35	1.6	18.60		B5/B14
	78	29	1.9	22.33		B5/B14		78	42	1.3	22.33		B5/B14
	73	31	1.8	23.91		B5/B14		73	45	1.2	23.91		B5/B14
	61	37	1.8	28.89		B5/B14		61	55	1.2	28.89		B5/B14
	57	40	1.6	30.84		B5/B14		57	59	1.1	30.84		B5/B14
	52	43	1.5	33.57		B5/B14		52	64	1.0	33.57		B5/B14
	49	46	1.4	35.63		B5/B14		49	68	1.0	35.63		B5/B14
	41	55	1.2	42.75		B5/B14		283	12	6.0	6.18	CMB502	B5/B14
	32	71	0.9	55.31		B5/B14		234	14	4.9	7.49		B5/B14
	30	76	0.9	59.06		B5/B14		190	17	4.0	9.20		B5/B14
					CMB502	B5/B14		148	22	4.0	11.83		B5/B14
	94	24	4.6	18.60		B5/B14		140	24	3.8	12.48		B5/B14
	78	29	3.8	22.33		B5/B14		118	28	3.2	14.83		B5/B14
	73	31	3.6	23.91		B5/B14		99	33	2.7	17.63		B5/B14
	61	37	3.4	28.89		B5/B14		94	35	3.1	18.60		B5/B14
	57	40	3.2	30.84		B5/B14		78	42	2.6	22.33		B5/B14
	52	43	2.9	33.57		B5/B14		73	45	2.4	23.91		B5/B14
	49	46	2.7	35.63		B5/B14		61	55	2.3	28.89		B5/B14
	41	55	2.3	42.75		B5/B14		57	59	2.1	30.84		B5/B14
	32	71	1.8	55.31		B5/B14		52	64	2.0	33.57		B5/B14
	30	76	1.7	59.06		B5/B14		49	68	1.8	35.63		B5/B14
	27	82	1.5	64.29		B5/B14		41	81	1.5	42.75		B5/B14
	24	93	1.3	72.50		B5/B14		32	105	1.2	55.31		B5/B14
						B5/B14		30	112	1.1	59.06		B5/B14
						B5/B14		27	122	1.0	64.29		B5/B14
						B5/B14		24	138	0.9	72.50		B5/B14
	45	50	5.0	38.88	CMB633	B5/B14		62	53	4.1	28.17	CMB633	B5/B14
	37	60	4.1	47.16		B5/B14		52	64	3.4	33.81		B5/B14
	30	74	3.4	57.93		B5/B14		49	68	3.2	35.92		B5/B14
	28	79	3.2	61.63		B5/B14		45	74	3.4	38.88		B5/B14
	24	95	2.6	73.96		B5/B14		37	90	2.8	47.16		B5/B14
	22	101	2.5	78.58		B5/B14		30	110	2.3	57.93		B5/B14
	19	120	2.1	93.33		B5/B14		28	117	2.1	61.63		B5/B14
	12	180	1.4	140.52		B5/B14		24	140	1.8	73.96		B5/B14
	10	233	1.1	181.81		B5/B14		22	149	1.7	78.58		B5/B14
	8.3	271	0.9	211.31		B5/B14		19	177	1.4	93.33		B5/B14
						B5/B14		12	267	0.9	140.52		B5/B14
						B5/B14		30	109	4.6	57.52	CMB903	B5
						B5/B14		26	126	4.0	66.17		B5
						B5/B14		21	158	3.2	83.20		B5
						B5/B14		16	205	2.4	108.09		B5
						B5/B14		13	251	2.0	132.23		B5
						B5/B14		12	281	1.8	147.92		B5
						B5/B14		10	317	1.6	167.09		B5
						B5/B14		9.2	363	1.4	191.06		B5
						B5/B14		7.9	421	1.2	221.88		B5
						B5/B14		6.7	499	1.0	262.96		B5

**CMB**

Motorreductores de ejes ortogonales
 Motores com eixos ortogonais
 Helical bevel gearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

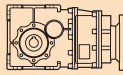
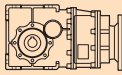
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.55							0.75						
(0.75 hp)	283	17	2.3	6.18	CMB402	B5/B14	(1.0 hp)	283	24	2.9	6.18	CMB502	B5/B14
71B4 (1750 min ⁻¹)	234	21	1.9	7.49		B5/B14	80A4	234	29	2.4	7.49		B5/B14
	190	26	1.5	9.20		B5/B14	(1750 min ⁻¹)	190	35	2.0	9.20		B5/B14
	148	33	1.3	11.83		B5/B14	148	46	2.0	11.83	B5/B14		
	140	35	1.3	12.48		B5/B14	140	48	1.9	12.48	B5/B14		
	118	42	1.1	14.83		B5/B14	118	57	1.6	14.83	B5/B14		
	99	50	0.9	17.63		B5/B14	99	68	1.3	17.63	B5/B14		
	94	52	1.0	18.60		B5/B14	94	72	1.5	18.60	B5/B14		
	78	63	0.9	22.33	B5/B14	78	86	1.3	22.33	B5/B14			
		283	17	4.0	6.18	CMB502	B5/B14	73	92	1.2	23.91	B5/B14	
		234	21	3.3	7.49		B5/B14	61	111	1.1	28.89	B5/B14	
	190	26	2.7	9.20	B5/B14		57	119	1.1	30.84	B5/B14		
	148	33	2.7	11.83	B5/B14		52	129	1.0	33.57	B5/B14		
	140	35	2.6	12.48	B5/B14		49	137	0.9	35.63	B5/B14		
	118	42	2.2	14.83	B5/B14								
	99	50	1.8	17.63	B5/B14		266	25	5.9	6.58	CMB633	B5/B14	
	94	52	2.1	18.60	B5/B14		219	31	4.9	7.99		B5/B14	
	78	63	1.7	22.33	B5/B14		178	38	4.0	9.81		B5/B14	
	73	67	1.6	23.91	B5/B14		168	40	3.7	10.44		B5/B14	
	61	81	1.5	28.89	B5/B14	140	48	3.1	12.53	B5/B14			
	57	87	1.4	30.84	B5/B14	131	51	2.9	13.31	B5/B14			
	52	95	1.3	33.57	B5/B14	111	61	2.8	15.81	B5/B14			
	49	101	1.2	35.63	B5/B14	98	68	3.2	17.77	B5/B14			
	41	121	1.0	42.75	B5/B14	81	83	2.7	21.56	B5/B14			
	168	29	5.1	10.44	CMB633	B5/B14	66	102	2.2	26.48	B5/B14		
	140	35	4.2	12.53		B5/B14	62	108	2.0	28.17	B5/B14		
	131	38	4.0	13.31		B5/B14	52	130	1.7	33.81	B5/B14		
	111	45	3.8	15.81		B5/B14	49	138	1.6	35.92	B5/B14		
	98	50	4.4	17.77		B5/B14	45	150	1.7	38.88	B5/B14		
	81	61	3.6	21.56		B5/B14	37	181	1.4	47.16	B5/B14		
	66	75	2.9	26.48		B5/B14	30	223	1.1	57.93	B5/B14		
	62	79	2.8	28.17		B5/B14	28	237	1.1	61.63	B5/B14		
	52	95	2.3	33.81		B5/B14	24	285	0.9	73.96	B5/B14		
	49	101	2.2	35.92		B5/B14							
	45	110	2.3	38.88	B5/B14	67	101	4.4	26.30	CMB903	B5/B14		
	37	133	1.9	47.16	B5/B14	58	116	3.9	30.25		B5/B14		
	30	163	1.5	57.93	B5/B14	45	151	3.3	39.26		B5/B14		
	28	174	1.4	61.63	B5/B14	37	182	2.8	47.25		B5/B14		
	24	209	1.2	73.96	B5/B14	30	221	2.3	57.52		B5/B14		
	22	222	1.1	78.58	B5/B14	26	255	2.0	66.17		B5/B14		
	19	263	0.9	93.33	B5/B14	21	320	1.6	83.20		B5/B14		
	58	85	5.3	30.25	CMB903	B5	16	416	1.2		108.09	B5/B14	
	45	111	4.5	39.26		B5	13	509	1.0	132.23	B5/B14		
	37	133	3.8	47.25		B5	12	569	0.9	147.92	B5/B14		
	30	162	3.1	57.52		B5							
	26	187	2.7	66.17		B5							
	21	235	2.1	83.20		B5							
	16	305	1.6	108.09		B5							
	13	373	1.3	132.23		B5							
	12	417	1.2	147.92		B5							
	10	471	1.1	167.09		B5							
	9.2	539	0.9	191.06	B5								
1.1													
(1.5 hp)	283	35	2.0	6.18	CMB502	B5/B14	(1.5 hp)	283	35	2.0	6.18	CMB502	B5/B14
80B4 (1750 min ⁻¹)	234	42	1.7	7.49		B5/B14	234	42	1.7	7.49	B5/B14		
	190	52	1.3	9.20		B5/B14	190	52	1.3	9.20	B5/B14		
	148	67	1.3	11.83		B5/B14	148	67	1.3	11.83	B5/B14		
	140	70	1.3	12.48		B5/B14	140	70	1.3	12.48	B5/B14		
	118	84	1.1	14.83		B5/B14	118	84	1.1	14.83	B5/B14		
	99	99	0.9	17.63		B5/B14	99	99	0.9	17.63	B5/B14		
	94	105	1.0	18.60		B5/B14	94	105	1.0	18.60	B5/B14		
	78	126	0.9	22.33		B5/B14	78	126	0.9	22.33	B5/B14		

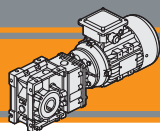


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
1.1							2.2						
(1.5 hp) 80B4 (1750 min ⁻¹)	266	37	4.0	6.58	CMB633	B5/B14	(3.0 hp) 90L4 (1750 min ⁻¹)	266	74	2.0	6.58	CMB633	B5/B14
	219	45	3.3	7.99		B5/B14		219	90	1.7	7.99		B5/B14
	178	55	2.7	9.81		B5/B14		178	111	1.4	9.81		B5/B14
	168	59	2.5	10.44		B5/B14		168	118	1.3	10.44		B5/B14
	140	71	2.1	12.53		B5/B14		140	141	1.1	12.53		B5/B14
	131	75	2.0	13.31		B5/B14		131	150	1.0	13.31		B5/B14
	111	89	1.9	15.81		B5/B14		111	178	1.0	15.81		B5/B14
	98	100	2.2	17.77		B5/B14		98	201	1.1	17.77		B5/B14
	81	122	1.8	21.56		B5/B14		81	243	0.9	21.56		B5/B14
	66	149	1.5	26.48		B5/B14							
	62	159	1.4	28.17	B5/B14	263	75	3.7	6.65	CMB903	B5/B14		
	52	191	1.2	33.81	B5/B14	219	90	3.1	8.00		B5/B14		
	49	203	1.1	35.92	B5/B14	180	110	2.5	9.74		B5/B14		
	45	219	1.1	38.88	B5/B14	156	126	2.2	11.21		B5/B14		
	37	266	0.9	47.16	B5/B14	124	159	1.9	14.09		B5/B14		
						98	203	2.2	17.95		B5/B14		
	263	38	7.5	6.65	CMB903	B5/B14	81	244	1.8		21.60	B5/B14	
	219	45	6.2	8.00		B5/B14	67	297	1.5		26.30	B5/B14	
	180	55	5.1	9.74		B5/B14	58	341	1.3		30.25	B5/B14	
	156	63	4.4	11.21		B5/B14	45	443	1.1		39.26	B5/B14	
124	80	3.8	14.09	B5/B14		37	533	0.9	47.25	B5/B14			
98	101	4.4	17.95	B5/B14									
81	122	3.7	21.60	B5/B14									
67	148	3.0	26.30	B5/B14									
58	171	2.6	30.25	B5/B14									
45	222	2.3	39.26	B5/B14									
37	267	1.9	47.25	B5/B14									
30	325	1.5	57.52	B5/B14									
26	373	1.3	66.17	B5/B14									
21	469	1.1	83.20	B5/B14									
1.5							3						
(2.0 hp) 90S4 (1750 min ⁻¹)	266	51	3.0	6.58	CMB633	B5/B14	(4.0 hp) 100LA4 (1750 min ⁻¹)	263	102	2.7	6.65	CMB903	B5/B14
	219	61	2.4	7.99		B5/B14		219	123	2.3	8.00		B5/B14
	178	76	2.0	9.81		B5/B14		180	150	1.9	9.74		B5/B14
	168	80	1.9	10.44		B5/B14		156	172	1.6	11.21		B5/B14
	140	96	1.6	12.53		B5/B14		124	217	1.4	14.09		B5/B14
	131	102	1.5	13.31		B5/B14		98	276	1.6	17.95		B5/B14
	111	122	1.4	15.81		B5/B14		81	332	1.4	21.60		B5/B14
	98	137	1.6	17.77		B5/B14		67	405	1.1	26.30		B5/B14
	81	166	1.3	21.56		B5/B14		58	466	1.0	30.25		B5/B14
	66	204	1.1	26.48		B5/B14							
	62	217	1.0	28.17	B5/B14								
	52	260	0.8	33.81	B5/B14								
					CMB903	B5/B14							
	263	51	5.5	6.65		B5/B14							
	219	62	4.5	8.00		B5/B14							
	180	75	3.7	9.74		B5/B14							
	156	86	3.2	11.21		B5/B14							
	124	108	2.8	14.09		B5/B14							
	98	138	3.3	17.95		B5/B14							
	81	166	2.7	21.60		B5/B14							
67	202	2.2	26.30	B5/B14									
58	233	1.9	30.25	B5/B14									
45	302	1.7	39.26	B5/B14									
37	364	1.4	47.25	B5/B14									
30	443	1.1	57.52	B5/B14									
26	509	1.0	66.17	B5/B14									
1.5							3.7						
(2.0 hp) 90S4 (1750 min ⁻¹)	266	51	3.0	6.58	CMB633	B5/B14	(5.0 hp) 112M4 (1750 min ⁻¹)	263	126	2.2	6.65	CMB903	B5/B14
	219	61	2.4	7.99		B5/B14		219	152	1.8	8.00		B5/B14
	178	76	2.0	9.81		B5/B14		180	185	1.5	9.74		B5/B14
	168	80	1.9	10.44		B5/B14		156	213	1.3	11.21		B5/B14
	140	96	1.6	12.53		B5/B14		124	267	1.1	14.09		B5/B14
	131	102	1.5	13.31		B5/B14		98	341	1.3	17.95		B5/B14
	111	122	1.4	15.81		B5/B14		81	410	1.1	21.60		B5/B14
	98	137	1.6	17.77		B5/B14		67	499	0.9	26.30		B5/B14
	81	166	1.3	21.56		B5/B14							
	66	204	1.1	26.48		B5/B14							
1.5							4.5						
(2.0 hp) 90S4 (1750 min ⁻¹)	266	51	3.0	6.58	CMB633	B5/B14	(6.0 hp) 112MA4 (1750 min ⁻¹)	263	154	1.8	6.65	CMB903	B5/B14
	219	61	2.4	7.99		B5/B14		219	185	1.5	8.00		B5/B14
	178	76	2.0	9.81		B5/B14		180	225	1.2	9.74		B5/B14
	168	80	1.9	10.44		B5/B14		156	259	1.1	11.21		B5/B14
	140	96	1.6	12.53		B5/B14		124	325	0.9	14.09		B5/B14
	131	102	1.5	13.31		B5/B14		98	414	1.1	17.95		B5/B14
	111	122	1.4	15.81		B5/B14		81	499	0.9	21.60		B5/B14
	98	137	1.6	17.77		B5/B14							
	81	166	1.3	21.56		B5/B14							
	66	204	1.1	26.48		B5/B14							
1.5							5.5						
(2.0 hp) 90S4 (1750 min ⁻¹)	266	51	3.0	6.58	CMB633	B5/B14	(7.5 hp) 112MB4 (1750 min ⁻¹)	263	188	1.5	6.65	CMB903	B5/B14
	219	61	2.4	7.99		B5/B14		219	226	1.2	8.00		B5/B14
	178	76	2.0	9.81		B5/B14		180	275	1.0	9.74		B5/B14
	168	80	1.9	10.44		B5/B14		156	316	0.9	11.21		B5/B14
	140	96	1.6	12.53		B5/B14		98	506	0.9	17.95		B5/B14



CMB

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz

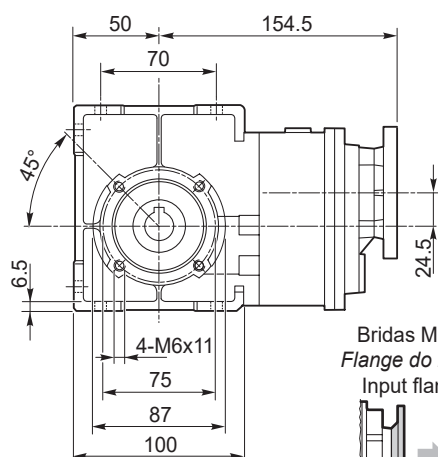
Dimensiones

Dimensões

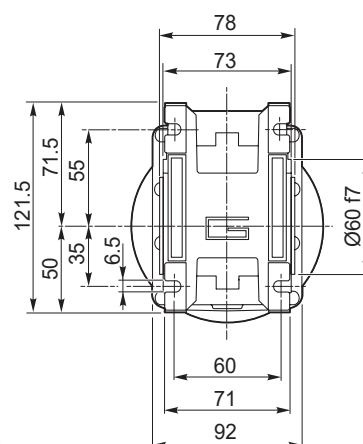
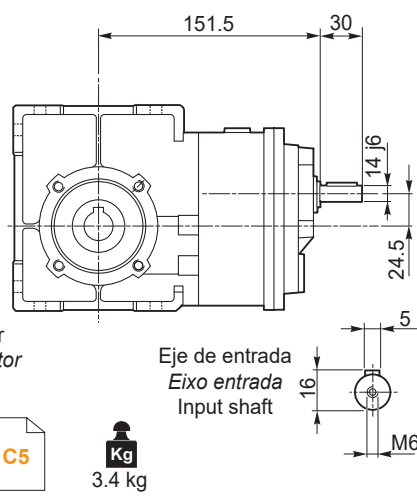
Dimensions

CMB 402.. - CMBIS 402..

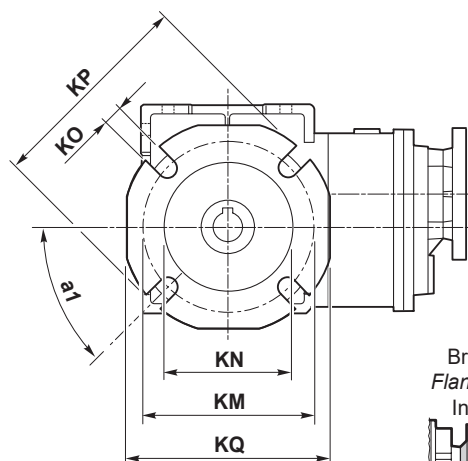
CMB 402 U..



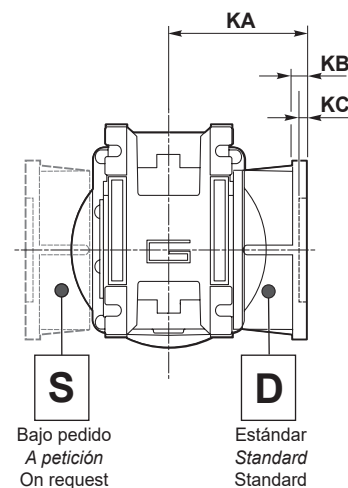
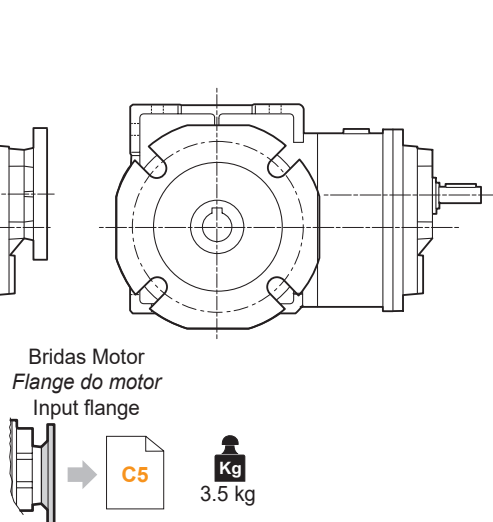
CMBIS 402 U..



CMB 402 F..

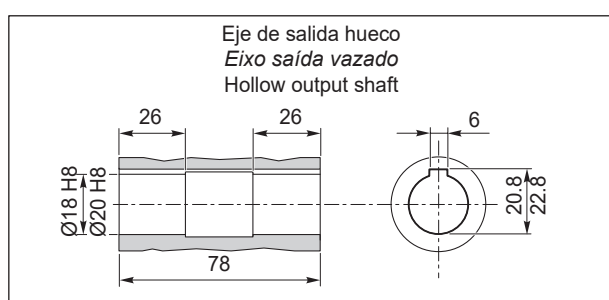


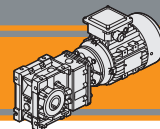
CMBIS 402 F..



Versión F / Versão F / F Version										
CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
402	45°	67	7.5	4.5	80-95	60	9	110	95	F
	45°	97	7.5	4.5	80-95	60	9	110	95	FL
	45°	80	8.5	5	115-125	95	9.5	140	112	FB

CMB 402.. D.. - CMBIS 402.. D..





Dimensiones

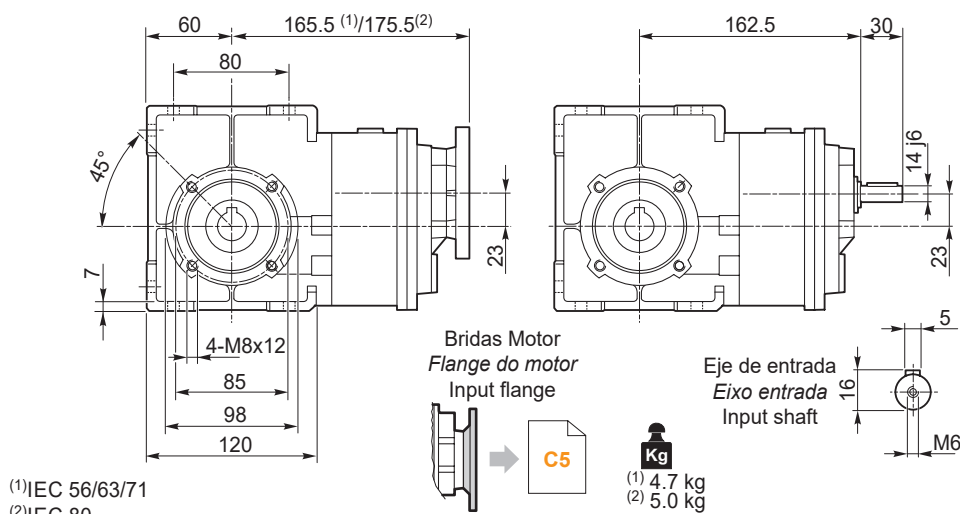
Dimensões

Dimensions

CMB 502.. - CMBIS 502..

CMB 502 U..

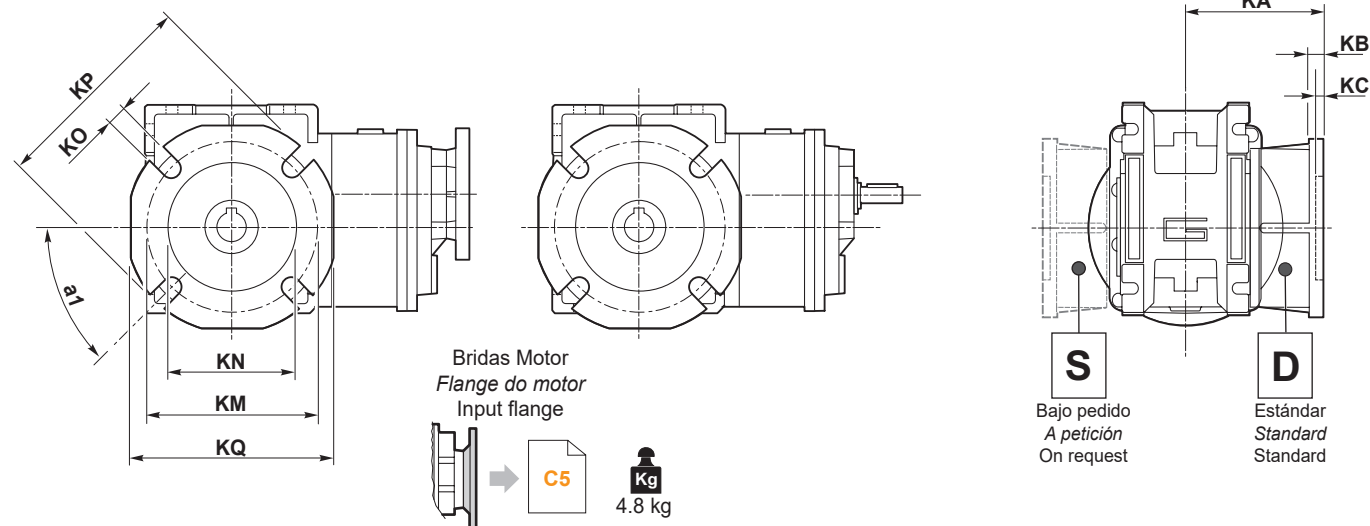
CMBIS 502 U..



(1) IEC 56/63/71
 (2) IEC 80

CMB 502 F..

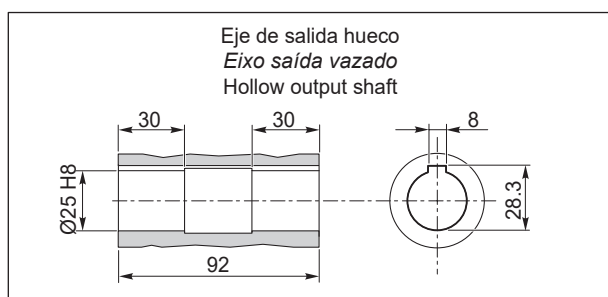
CMBIS 502 F..

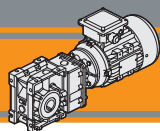


Versión F / Versão F / F Version

CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
502	45°	90	9	5	90-110	70	11	125	110	F
	45°	120	9	5	90-110	70	11	125	110	FL
	45°	89	9	5	130-145	110	9.5	160	132	FB

CMB 502.. D.. - CMBIS 502.. D..





CMB

Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz

Dimensiones

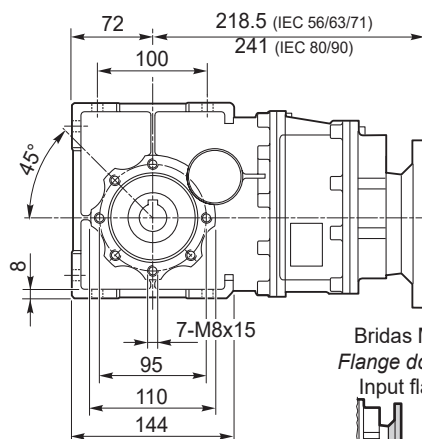
Dimensões

Dimensions

CMB 633.. - CMBIS 633..

CMB 633 U..

CMBIS 633 U..



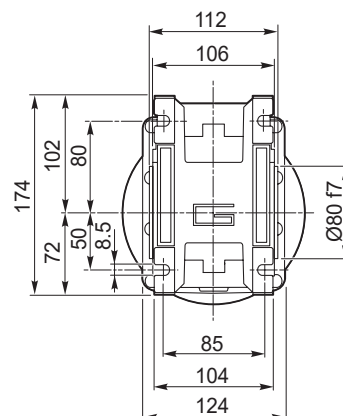
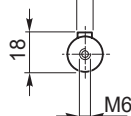
Bridas Motor
Flange do motor
Input flange



C6

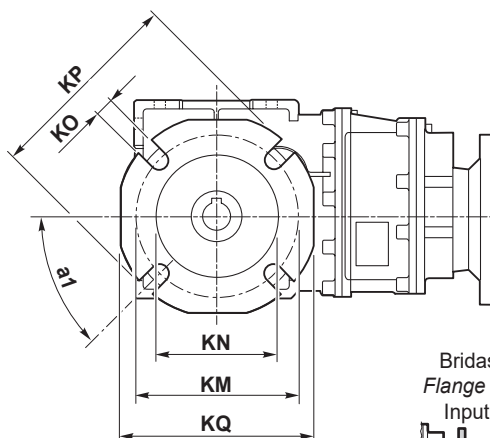
9.5 kg

Eje de entrada
Eixo entrada
Input shaft



CMB 633 F..

CMBIS 633 F..

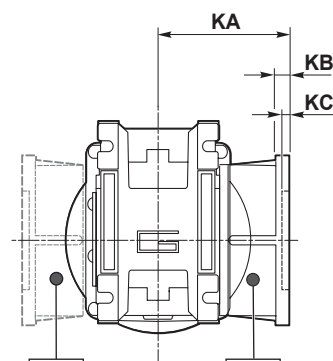


Bridas Motor
Flange do motor
Input flange



C6

9.2 kg



S

Bajo pedido
A petición
On request

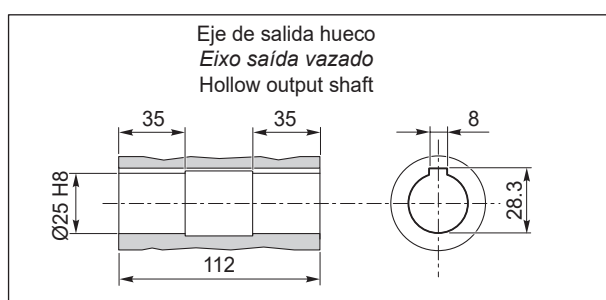
D

Estándar
Standard
Standard

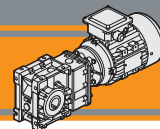
Versión F / Versão F / F Version

CMB CMBIS	α_1	K_A	K_B	K_C	K_M	K_N H8	K_O	K_P	K_Q	Brida / Flange / Flange Tipo / Tipo / Type
633	45°	82	10	6	150-160	115	11	180	142	F
	45°	112	10	8	150-160	115	11	180	142	FL
	45°	98	11	5	165	130	11	200	160	FB

CMB 633.. D.. - CMBIS 633.. D..



Eje de salida hueco
Eixo saída vazado
Hollow output shaft



Dimensiones

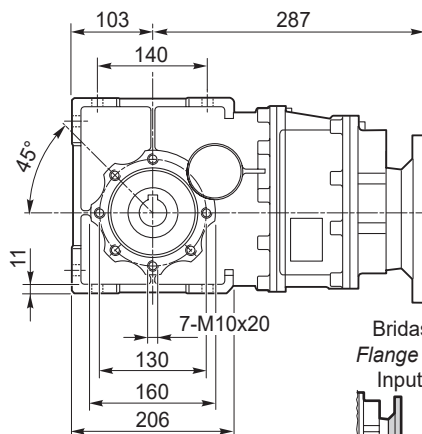
Dimensões

Dimensions

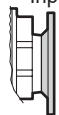
CMB 903.. - CMBIS 903..

CMB 903 U..

CMBIS 903 U..



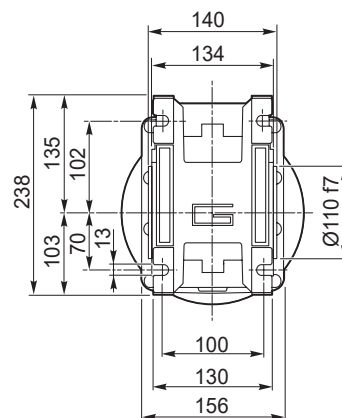
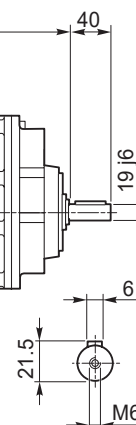
Bridas Motor
Flange do motor
Input flange



C7

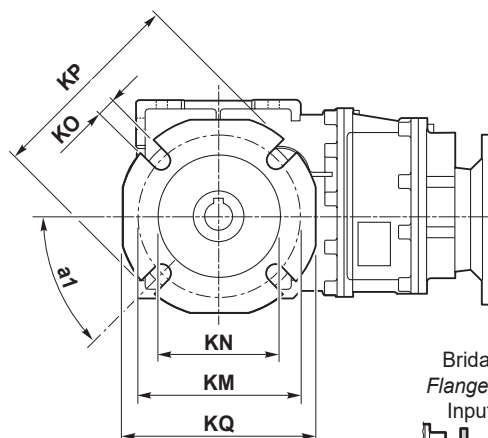
Kg
18.4 kg

Eje de entrada
Eixo entrada
Input shaft



CMB 903 F..

CMBIS 903 F..

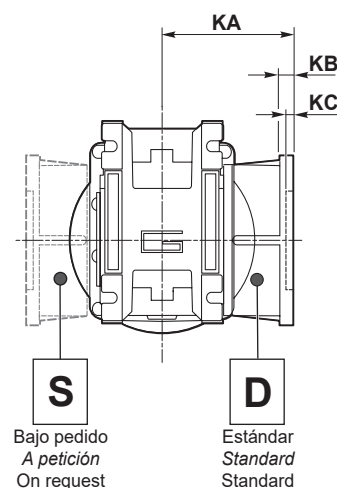


Bridas Motor
Flange do motor
Input flange



C7

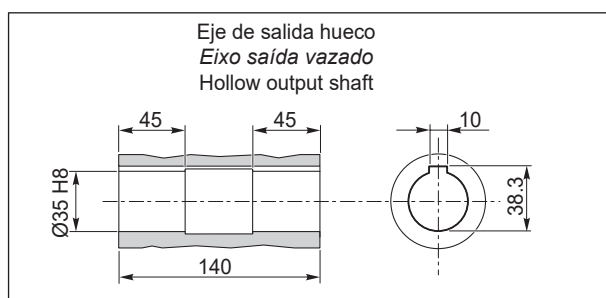
Kg
18.1 kg

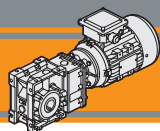


Versión F / Versão F / F Version

CMB CMBIS	a ₁	KA	KB	KC	KM	KN H8	KO	KP	KQ	Brida / Flange / Flange Tipo / Tipo / Type
903	45°	111	13	6	175-188	152	14	210	200	F

CMB 903.. D.. - CMBIS 903.. D..





CMB

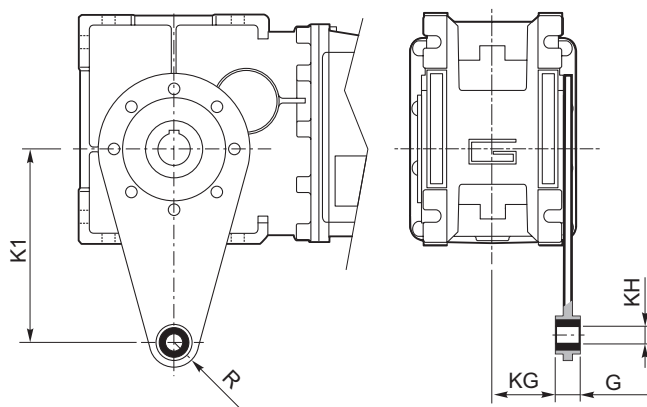
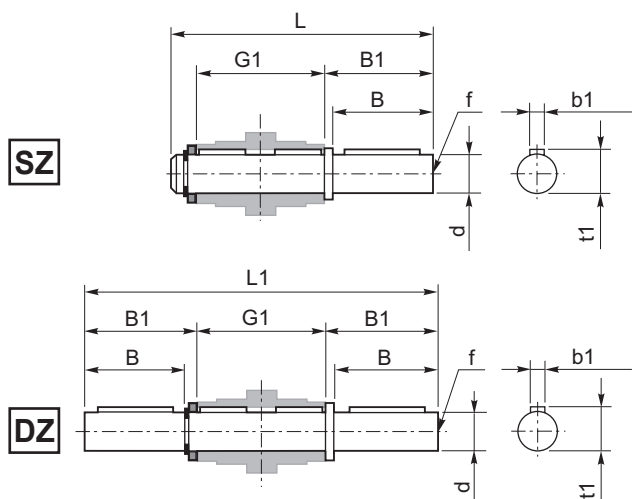
Motorreductores de ejes ortogonales
Motoredutores com eixos ortogonais
Helical bevel gearmotors

60 Hz

Accesorios

Acessórios

Accessories



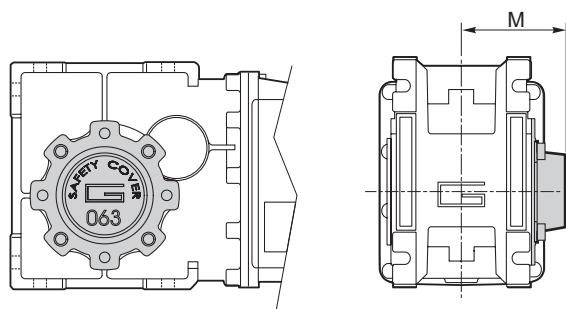
Eje de salida / Eixo saída / Output shaft

CMB CMBIS	d h7	B	B1	G1	L	L1	f	b1	t1
402	18	40	43	78	128	164	M6	6	20.5
502	25	50	53.5	92	153	199	M10	8	28
633	25	50	53.5	112	173	219	M10	8	28
903	35	80	84.5	140	234	309	M12	10	38

Brazo de reacción / Braço de reação / Torque arm

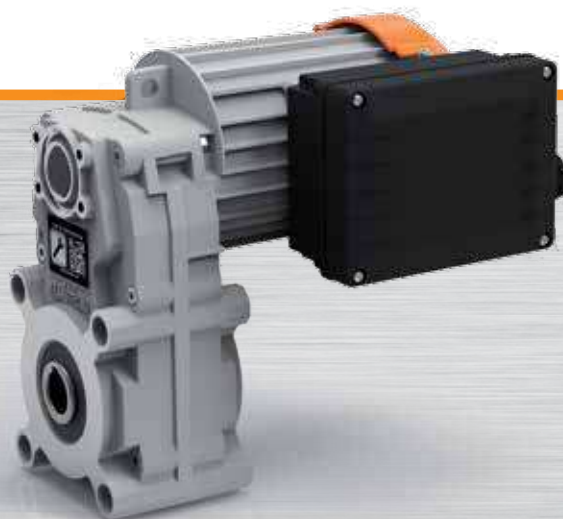
CMB CMBIS	K1	G	KG	KH	R
402	100	14	31	10	18
502	100	14	38	10	18
633	150	14	47.5	10	18
903	200	25	56.5	20	30

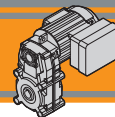
SC - Cubierta de seguridad / Tampa de proteção / Safety cover



CMB CMBIS	M
402	54.5
502	62.5
633	73
903	94

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors



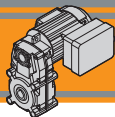


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Nomenclatura	<i>Simbologia</i>	Legend	D3
Lubricación	<i>Lubrificação</i>	Lubrication	D3
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KFT105

Motorreductores pendulares Motoredutores de eixos paralelos Helical parallel gearmotors

60 Hz

Características técnicas

La gama de motorreductores pendulares KFT105 tiene las siguientes características principales:

- Diseño compacto
- Motores monofásicos
- Carcasa de aluminio fundido
- Engranajes helicoidales
- Lubricación con aceite sintético de larga vida
- Disponible con 3 y 4 etapas de reducción

Características técnicas

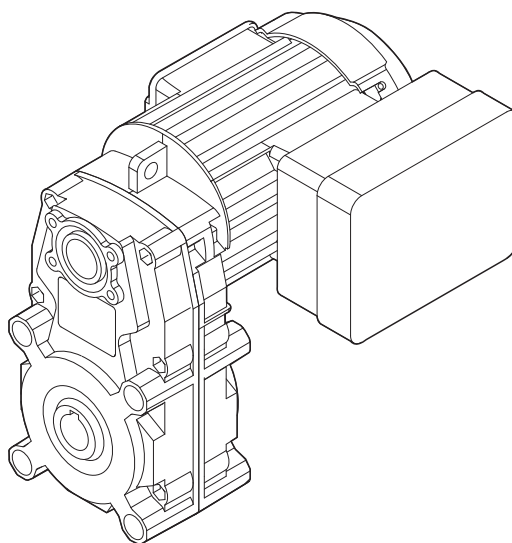
Os Motoredutores de eixos paralelos KFT105 possuem como principais características principais:

- Design compacto
- Motorização monofásica AC Motor
- Carcaça de alumínio fundido sob pressão
- Engrenagens com dentes helicoidais
- lubrificação permanente com óleo sintético
- Disponível com 3 ou 4 estágios de redução

Technical features

KFT105 helical parallel gearmotors range has the following main features:

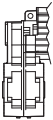
- Compact design
- AC single phase motors available
- Die-cast aluminum housings
- Helical gears
- Permanent synthetic oil long-life lubrication
- Available with 3 and 4 reduction stages

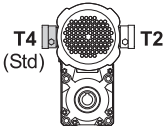


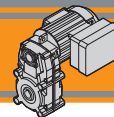
Clasificación

Designação

Classification

REDUCTOR / REDUTOR / GEARBOX				
KFT	105/3	U	88.87	O20
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft
KFT 	105/3 105/4	U... F...	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables

MOTOR / MOTOR / MOTOR						
40W	4p	1ph	230	60Hz	T1	TEFC
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.	Ventilación de enfriamiento Ventilação Fan cooling
Véase tablas Veja tabelas see tables	2p 4p 6p	1ph	230V	60Hz		TEFC TENV



Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
P_{n1}	[kW]	Potencia nominal en la entrada / <i>Potência nominal na entrada</i> / Nominal input power
M_{n2}	[Nm]	Par nominal en la salida en función de P_{n1} / <i>Torque nominal na saída em função de P_{n1}</i> / Nominal output torque referred to P_{n1}
sf		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load
V	[V]	Tensión / <i>Tensão</i> / Voltage
F	[Hz]	Frecuencia / <i>Frequência</i> / Frequency
I_n	[A]	Corriente nominal / <i>Torque nominal</i> / Nominal current
I_s	[A]	Corriente de arranque / <i>Torque de pico</i> / Start current
$\cos\phi$		Factor de potencia / <i>Fator de potência</i> / Power factor
C	[μ]	Condensador / <i>Capacidade do condensador</i> / Capacitor

Lubricación

Lubrificação

Lubrication

Todos los motoredutores pendulares son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

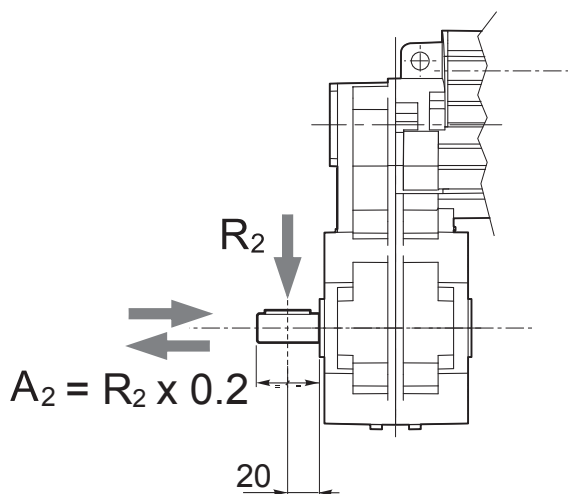
Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads

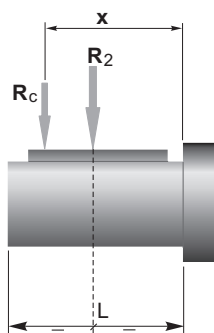


n_2 [min ⁻¹]	R_2 [N]
	KFT105
70	1500
40	1700
30	1850
20	2000
10	2000
5	2000

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

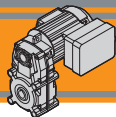


	KFT105
a	82
b	62
R_{2MAX}	2000

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
 a, b = valores referidos na tabela
 a, b = values given in the table

**KFT105****Motorreductores pendulares**
Motoredutores de eixos paralelos
Helical parallel gearmotors**60 Hz****Datos técnicos****Dados técnicos****Technical data****n₁ 1750 [min⁻¹]**

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	M _n [Nm]	i	
-----------------------	--	------------------------	----	------------------------	---	--

P ₁ [W]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	M _n [Nm]	i	
-----------------------	--	------------------------	----	------------------------	---	--

25

85	2.6	15.2	40	20.57	KFT105/3
53	4.3	11.7	50	33.32	
39	5.7	11.4	65	44.36	
32	7.0	9.2	65	54.87	
24	9.2	7.1	65	71.84	
23	10	6.6	65	77.07	
20	11	5.7	65	88.87	
14	16	4.1	65	124.81	
9.6	23	2.8	65	181.35	
7.8	29	2.3	65	224.32	
5.6	40	1.6	65	315.05	
4.8	47	1.4	65	368.19	KFT105/4
3.3	69	0.9	65	534.98	
2.6	85	0.8	65	661.76	
1.9	110	0.6	65	929.40	

90

85	9	4.2	40	20.57	KFT105/3
53	15	3.3	50	33.32	
39	20	3.2	65	44.36	
32	25	2.6	65	54.87	
24	33	2.0	65	71.84	
23	36	1.8	65	77.07	
20	41	1.6	65	88.87	
14	58	1.1	65	124.81	
9.6	84	0.8	65	181.35	
7.8	100	0.7	65	224.32	
5.6	100	0.7	65	315.05	
4.8	110	0.6	65	368.19	KFT105/4
3.3	110	0.6	65	534.98	
2.6	110	0.6	65	661.76	
1.9	110	0.6	65	929.40	

40

85	4.2	9.5	40	20.57	KFT105/3
53	6.8	7.3	50	33.32	
39	9.1	7.1	65	44.36	
32	11	5.8	65	54.87	
24	15	4.4	65	71.84	
23	16	4.1	65	77.07	
20	18	3.6	65	88.87	
14	26	2.5	65	124.81	
9.6	37	1.7	65	181.35	
7.8	46	1.4	65	224.32	
5.6	65	1.0	65	315.05	
4.8	76	0.9	65	368.19	KFT105/4
3.3	110	0.6	65	534.98	
2.6	110	0.6	65	661.76	
1.9	110	0.6	65	929.40	

120

85	13	3.2	40	20.57	KFT105/3
53	21	2.4	50	33.32	
39	27	2.4	65	44.36	
32	34	1.9	65	54.87	
24	44	1.5	65	71.84	
23	47	1.4	65	77.07	
20	55	1.2	65	88.87	
14	77	0.8	65	124.81	
9.6	100	0.7	65	181.35	
7.8	100	0.7	65	224.32	
5.6	100	0.7	65	315.05	
4.8	110	0.6	65	368.19	KFT105/4
3.3	110	0.6	65	534.98	
2.6	110	0.6	65	661.76	
1.9	110	0.6	65	929.40	

60

85	6.3	6.3	40	20.57	KFT105/3
53	10	4.9	50	33.32	
39	14	4.8	65	44.36	
32	17	3.8	65	54.87	
24	22	2.9	65	71.84	
23	24	2.7	65	77.07	
20	27	2.4	65	88.87	
14	38	1.7	65	124.81	
9.6	56	1.2	65	181.35	
7.8	69	0.9	65	224.32	
5.6	97	0.7	65	315.05	
4.8	110	0.6	65	368.19	KFT105/4
3.3	110	0.6	65	534.98	
2.6	110	0.6	65	661.76	
1.9	110	0.6	65	929.40	

N.B.

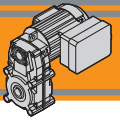
Por favor, compruebe que el par de salida M2 no exceda el valor en las áreas grises

N. B.

Sempre verifique que o torque (M2) não exceda o valor indicado nas tabelas cinzas

N.B.

Please check that the output torque M2 does not exceed the value in the grey areas



Datos técnicos

Dados técnicos

Electrical technical data

	P _n [W]	V [V]	F [Hz]	I _n [A]	I _s [A]	cosØ	C [µF]
1 Ph	25	230	50	0.40	0.58	0.98	8.0
	40			0.60	1.00	0.70	8.0
	60			0.65	1.71	0.84	8.0
	90			0.85	1.75	0.93	12.5
	120			1.10	3.00	0.97	14.0

Nota:

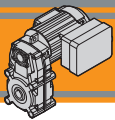
Versión trifásica disponible bajo pedido.
 Por favor, póngase en contacto con el
 servicio técnico.

Nota:

A versão trifásica está disponível a pedido.
 Por favor contactar a assistência técnica

Note:

Three-phase version available upon
 request.
 Please contact our technical service.



Dimensiones

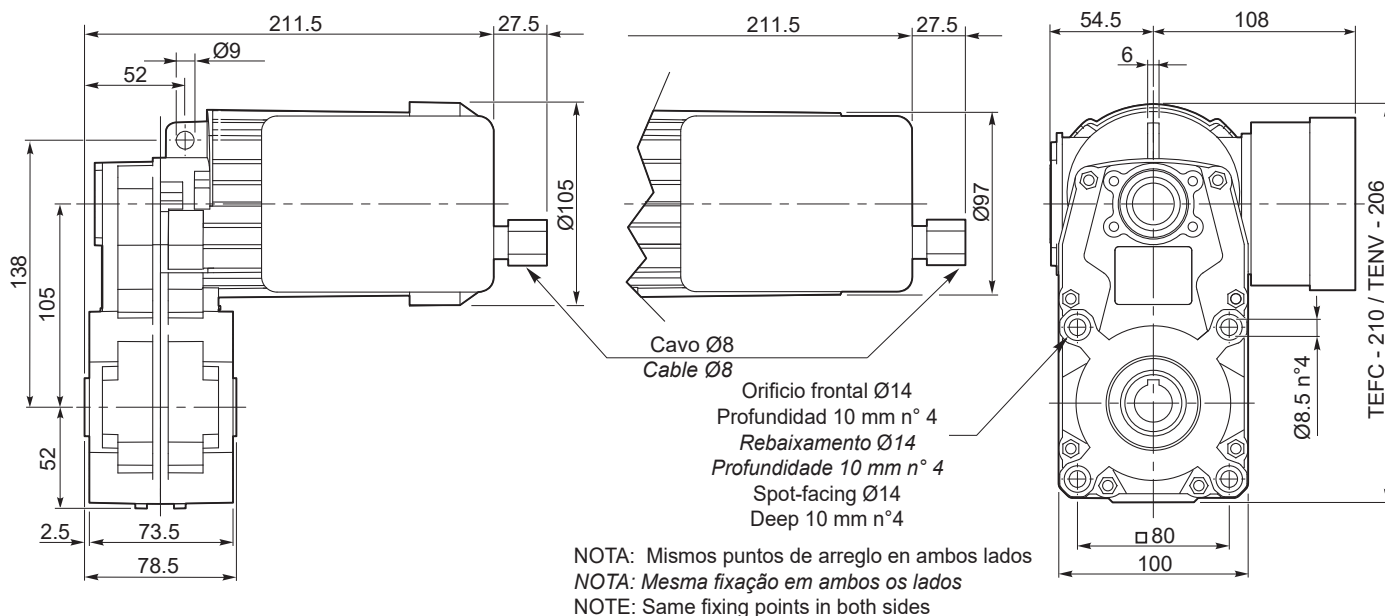
Dimensões

Dimensions

KFT 105... 25W - 40W - 60W - 90W

KFT 105...1 Ph...TEFC

KFT 105...1 Ph...TENV



Nota:

Versión trifásica disponible bajo pedido.
 Por favor, póngase en contacto con el
 servicio técnico.

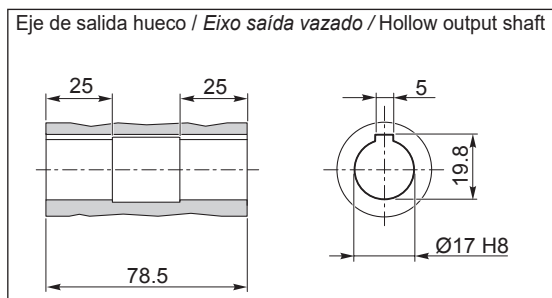
Nota:

A versão trifásica está disponível a pedido.
 Por favor contactar a assistência técnica

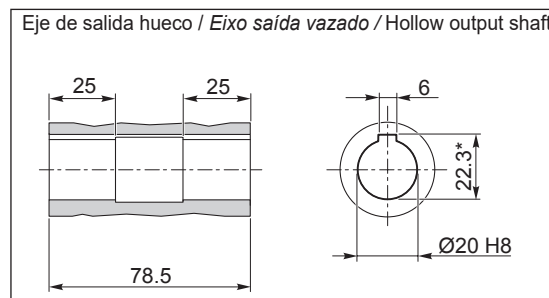
Note:

Three-phase version available upon
 request.
 Please contact our technical service.

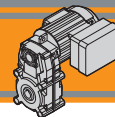
O17



O20



*Ranura especial / Encaixe da chave rebaixada / Special Keyway



Dimensiones

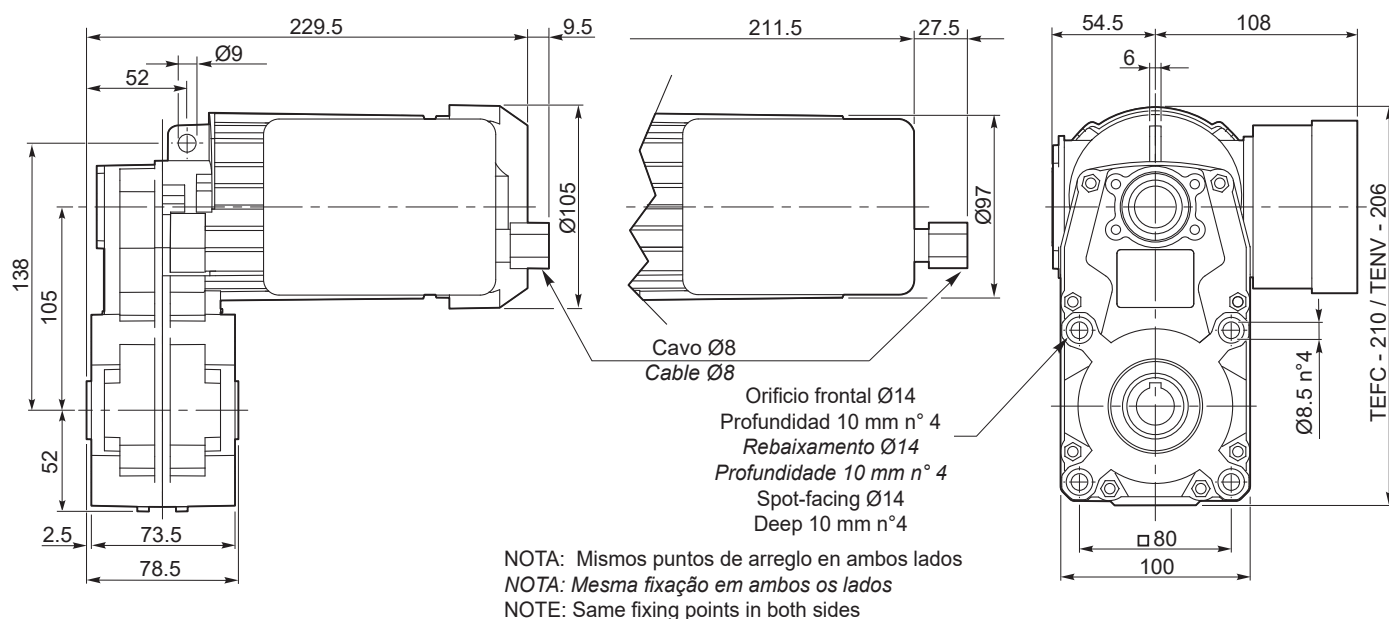
Dimensões

Dimensions

KFT 105... 120W

KFT 105...1 Ph... TEFC

KFT 105...1 Ph...TENV

**Nota:**

Versión trifásica disponible bajo pedido.
 Por favor, póngase en contacto con el
 servicio técnico.

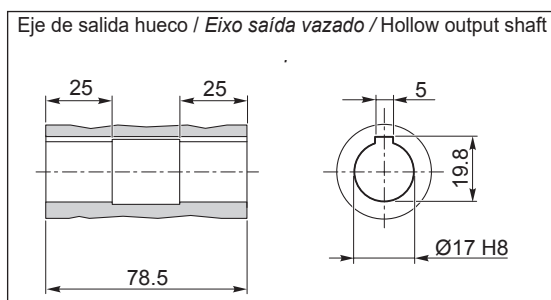
Nota:

A versão trifásica está disponível a pedido.
 Por favor contactar a assistência técnica

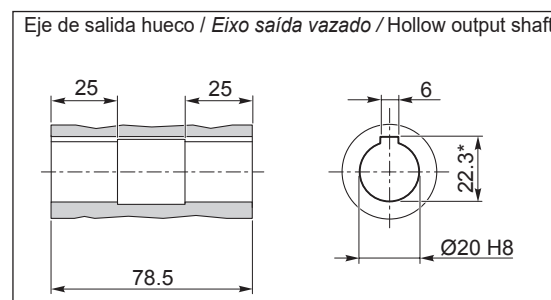
Note:

Three-phase version available upon
 request.
 Please contact our technical service.

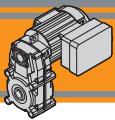
O17



O20



*Ranura especial / Encaixe da chaveta rebaixada / Special Keyway



KFT105

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

Conexiones eléctricas

Ligações elétricas

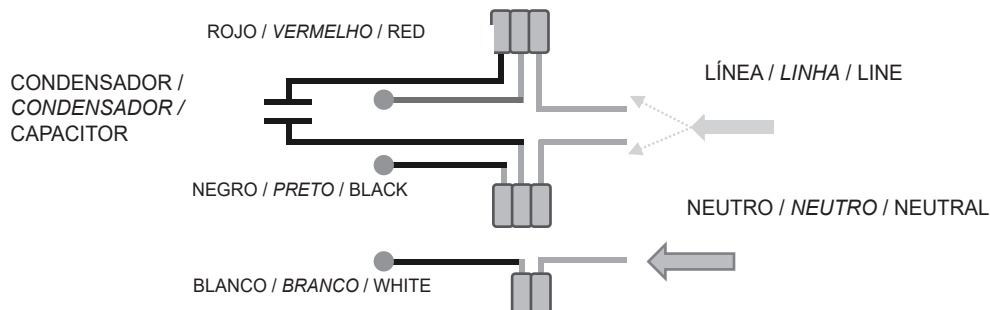
Electrical connections

Versión 230 V 50 Hz monofásica

Versão 230 V 50 Hz monofásica

230 V 50 Hz single-phase version

CONECTOR WAGO / CONECTOR WAGO / WAGO CONNECTOR



Línea = ROJO
Relación = 20.57 ÷ 315.05

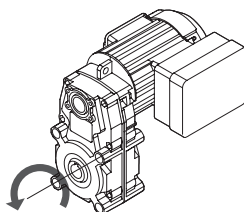
Línea = NEGRO
Relación = 368.19 to 929.40

Linha = VERMELHO
Relação = 20.57 ÷ 315.05

Linha = PRETO
Relação = 368.19 to 929.40

Line = RED
Ratio = 20.57 ÷ 315.05

Line = BLACK
Ratio = 368.19 to 929.40



Línea = NEGRO
Relación = 20.57 ÷ 315.05

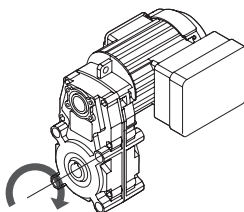
Línea = ROJO
Relación = 368.19 to 929.40

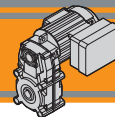
Linha = PRETO
Relação = 20.57 ÷ 315.05

Linha = VERMELHO
Relação = 368.19 to 929.40

Line = BLACK
Ratio = 20.57 ÷ 315.05

Line = RED
Ratio = 368.19 to 929.40





Conexiones eléctricas

Ligações elétricas

Electrical connections

Versión 230 V 50 Hz monofásica

Versão 230 V 50 Hz monofásica

230 V 50 Hz single-phase version

Nota:

En caso de que sea necesario conectar la PTO, para una mayor protección térmica del motor, seguir el circuito siguiente

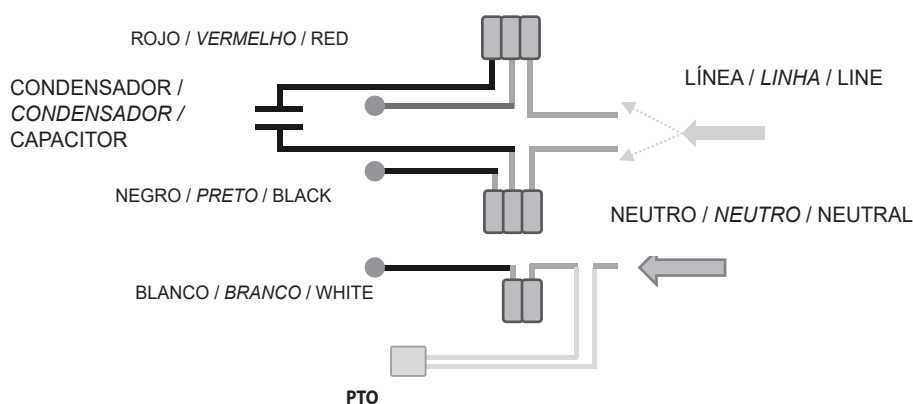
Nota:

Caso seja necessário ligar a PTO, para maior proteção térmica do motor, seguir o esquema abaixo

Note:

Should it be necessary to connect the PTO, for increased thermal protection of the motor, follow the diagram below

CONECTOR WAGO / CONECTOR WAGO / WAGO CONNECTOR



Conexión al circuito de mando del motor a cargo del cliente.

A ligação ao circuito de comando do motor é da responsabilidade do cliente.

Motor supply connection by the customer.



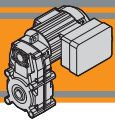
Por motivos de seguridad, no se recomienda la conexión en serie. Si es necesario, póngase en contacto con el Servicio Técnico de Transtecno.



Por motivos de segurança, é desaconselhada a ligação em série. Se necessário, contactar a Assistência Técnica Transtecno.

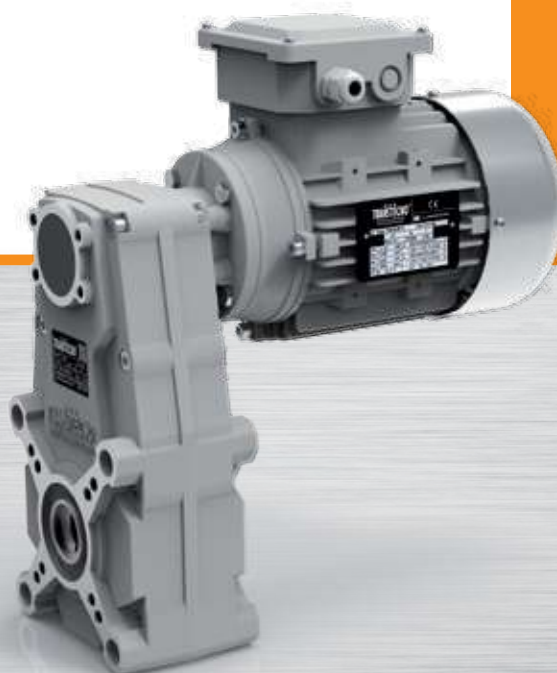


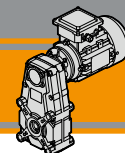
For safety reason Transtecno advises against PTO connected in series. If needed, contact Transtecno Technical Service.



Note/Notes

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors



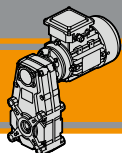


Índice	Índice	Index	Pag. Pág. Page
Características técnicas	<i>Características técnicas</i>	Technical features	E2
Clasificación	<i>Designação</i>	Classification	E2
Sentidos de rotación	<i>Sentidos de rotação</i>	Direction of rotation	E3
Nomenclatura	<i>Simbologia</i>	Legend	E3
Lubricación	<i>Lubrificação</i>	Lubrication	E3
Cargas radiales	<i>Cargas radiais</i>	Radial loads	E4
Datos técnicos	<i>Dados técnicos</i>	Technical data	E5
Dimensiones	<i>Dimensões</i>	Dimensions	E8

Esta sección substituye y anula las ediciones y revisiones previas. Si usted obtiene este catálogo a través de canales de distribución no autorizados o fuera de nuestro control, la versión en vigor no estará garantizada. **En todo caso, la versión más actualizada está disponible en nuestra página de internet www.transtecno.com**

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FT

Motorreductores pendulares Motoredutores de eixos paralelos Helical parallel gearmotors

60 Hz

Características técnicas

Características técnicas

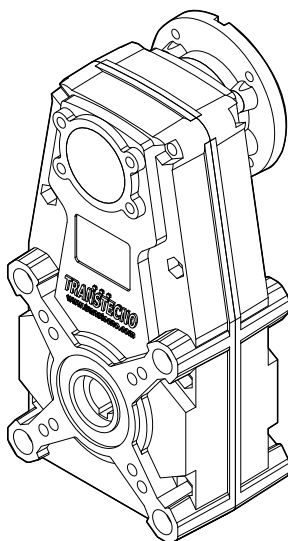
Technical features

La gama de motorreductores pendulares FT tiene las siguientes características principales:

Os Motoredutores de eixos paralelos FT possuem as seguintes características principais:

FT helical parallel gearmotors range has the following main features:

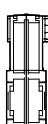
- Carcasas de aluminio fundido a presión
- Aceite de lubricación sintética de larga duración
- Engranajes helicoidales.
- Caixa de alumínio fundido sob pressão
- Lubrificação permanente com óleo sintético
- Engrenagens cilíndricas com dentes helicoidais.
- Die-cast aluminum housings
- Permanent synthetic oil long-life lubrication.
- helical gears.

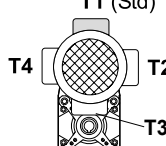


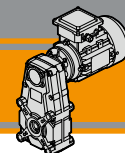
Clasificación

Designação

Classification

REDUCTOR / REDUTOR / GEARBOX						
FT	146	U	60.63	O20	56	B5
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	IEC 	Forma constructiva Forma construtiva Version
FT 	105/3 105/4 146 196	U...	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	56 63 71 80 90	B5 B14

MOTOR / MOTOR / MOTOR					
0.09kW	4p	3ph	230/400V	60Hz	T1
Potencia <i>Potência</i> Power	Polos <i>Pólos</i> Poles	Fases <i>Fases</i> Phases	Tensión <i>Tensão</i> Voltage	Frecuencia <i>Frequência</i> Frequency	Posición caja de bornes <i>Pos. Conexão</i> Terminal box pos.
Veja tabelas <i>Véase tablas</i> see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	T1 (Std) 

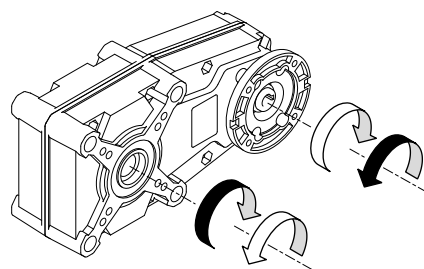
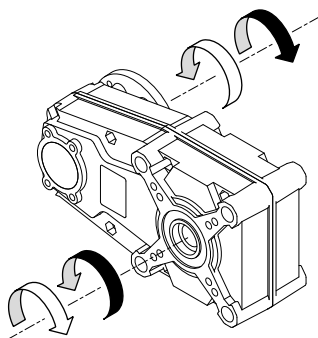


Sentidos de rotación

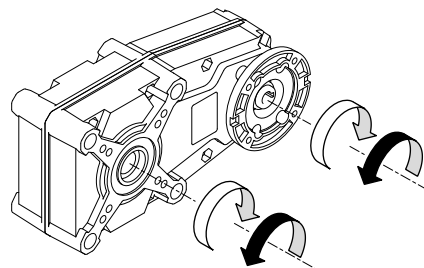
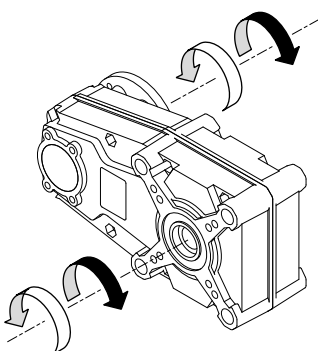
Sentidos de rotação

Direction of rotation

FT105/3
 FT146
 FT196



FT105/4



Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
P_{n1}	[kW]	Potencia nominal en la entrada / <i>Potência nominal na entrada</i> / Nominal input power
M_{n2}	[Nm]	Par nominal en la salida en función de P_{n1} / <i>Torque nominal na saída em função de P_{n1}</i> / Nominal output torque referred to P_{n1}
s_f		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load

Lubricación

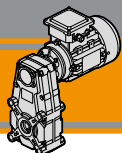
Lubrificação

Lubrication

Todos los motorreductores pendulares son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

Todos os motorreductores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



FT

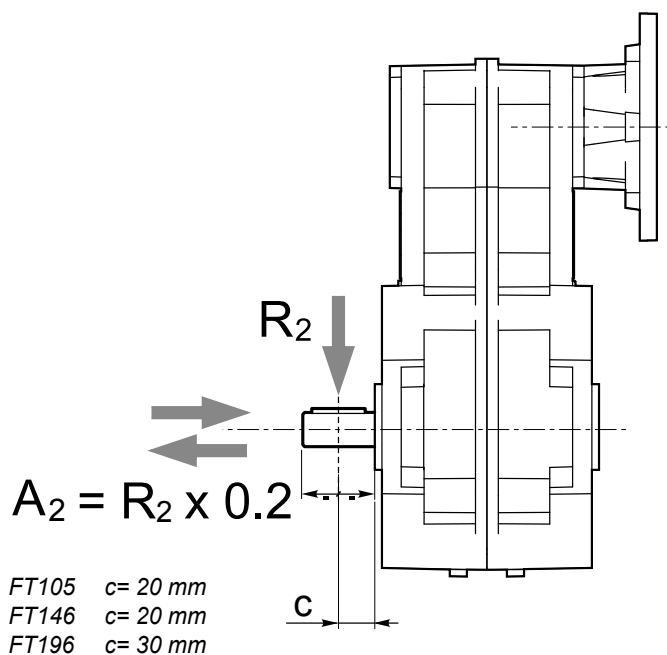
Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

Cargas radiales

Cargas radiais

Radial loads

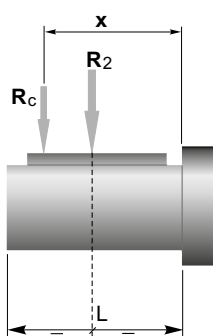


n_2 [min ⁻¹]	R_2 [N]		
	FT105	FT146	FT196
70	1500	2500	3500
40	1700	2700	4000
30	1850	2850	4600
20	2000	3000	5500
10	2000	3000	7000
5	2000	3000	7000

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

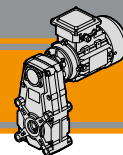


	FT105	FT146	FT196
a	82	82,5	132
b	62	62,5	102
R_{2MAX}	2000	3000	7000

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table



Datos técnicos

Dados técnicos

Technical data

 n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
FT105				
FT105/3	85	40	0.38	20.57
	53	50	0.29	33.32
	39	65	0.29	44.36
	32	65	0.23	54.87
	24	65	0.18	71.84
	23	65	0.16	77.07
	20	65	0.14	88.87
	14	65	0.10	124.81
	9.6	65	0.07	181.35
FT105/4	7.8	65	0.06	224.32
	5.6	65	0.04	315.05
	4.8	65	0.03	368.19
	3.3	65	0.02	534.98
	2.6	65	0.02	661.76
	1.9	65	0.01	929.40

IEC Motores aplicables
IEC Motores aplicáveis
IEC Motor adapters

56B14

FT146				
	93	80	0.81	18.75
	67		0.58	26.17
	62		0.54	28.26
	50	100	0.54	35.07
	44		0.48	39.44
	38		0.41	46.44
	33		0.36	52.86
	29	110	0.35	60.63
	25		0.30	70.00
	21		0.25	84.63
	18		0.22	95.61
	15		0.19	113.40
	13		0.16	133.45
	12		0.14	150.18
	11	120	0.14	160.43
	9.8		0.13	178.83
	7.8		0.10	223.92
	7.4		0.10	236.83
	5.8		0.08	300.07
	4.4		0.06	397.38

56 B5/B14

63 B5/B14

71 B5/B14

FT196

	86	350	3.3	20.41
	50	400	2.2	34.81
	41	450	2.0	42.61
	29	500	1.6	59.36
	24	550	1.4	72.68
	19		1.1	92.82
	14		0.85	123.95
	11		0.66	158.02
	8.7		0.52	201.80
	6.5		0.39	269.47

71 B5/B14

80 B5/B14

90 B5/B14

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.

El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas E6-E7.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.

O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

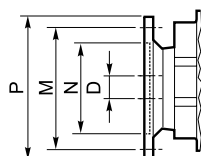
Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas E6-E7.

N.B.

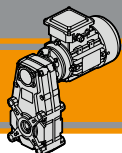
Highlighted areas indicate motor inputs available on each size of unit.

The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Before selecting any gearbox, please read the performance values shown in the tables on page E6-E7



IEC Dimension / IEC Dimensões / IEC Dimensions										
	56 B5	56 B14	63 B5	63 B14	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14
N	80	50	95	60	110	70	130	80	130	95
M	100	65	115	75	130	85	165	100	165	115
P	120	80	140	90	160	105	200	120	200	140
	9		11		14		19		24	

**FT****Motorreductores pendulares**
Motoredutores de eixos paralelos
Helical parallel gearmotors**60 Hz****Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.09							0.12						
(0.12 hp) 56B4 (1750 min ⁻¹)	85	9	4.2	20.57	FT105/3	B14	(0.16 hp) 63A4 (1750 min ⁻¹)	93	12	6.9	18.75	FT146	B5/B14
	53	15	3.3	33.32		B14		67	16	5.0	26.17		B5/B14
	39	20	3.2	44.36		B14		62	17	4.6	28.26		B5/B14
	32	25	2.6	54.87		B14		50	22	4.6	35.07		B5/B14
	24	33	2.0	71.84		B14		44	24	4.1	39.44		B5/B14
	23	36	1.8	77.07		B14		38	29	3.5	46.44		B5/B14
	20	41	1.6	88.87		B14		33	33	3.1	52.86		B5/B14
	14	58	1.1	124.81		B14		29	37	2.9	60.63		B5/B14
	9.6	84	0.8	181.35		B14		25	43	2.6	70.00		B5/B14
	7.8	100	0.7	224.32		B14		21	52	2.1	84.63		B5/B14
	5.6	100	0.7	315.05	B14	18	59	1.9	95.61	B5/B14			
					FT105/4		15	70	1.6	113.40	B5/B14		
	4.8	110	0.6	368.19		B14	13	82	1.3	133.45	B5/B14		
	3.3	110	0.6	534.98		B14	12	92	1.2	150.18	B5/B14		
	2.6	110	0.6	661.76		B14	11	99	1.2	160.43	B5/B14		
	1.9	110	0.6	929.40		B14	9.8	110	1.1	178.83	B5/B14		
					FT146		7.8	138	0.9	223.92	B5/B14		
	93	9	9.2	18.75		B5/B14	7.4	146	0.8	236.83	B5/B14		
	67	12	6.6	26.17		B5/B14	5.8	150	0.8	300.07	B5/B14		
	62	13	6.1	28.26		B5/B14	4.4	150	0.8	397.38	B5/B14		
	50	16	6.2	35.07		B5/B14	0.18						
	44	18	5.5	39.44		B5/B14	(0.25 hp)	93	17	4.6	18.75	FT146	B5/B14
	38	21	4.7	46.44		B5/B14		67	24	3.3	26.17		B5/B14
	33	24	4.1	52.86		B5/B14	63B4	62	26	3.1	28.26		B5/B14
	25	28	3.9	60.63		B5/B14	(1750 min ⁻¹)	50	32	3.1	35.07		B5/B14
	21	32	3.4	70.00		B5/B14		44	36	2.7	39.44		B5/B14
	15	39	2.8	84.63		B5/B14		38	43	2.3	46.44		B5/B14
	13	44	2.5	95.61		B5/B14		33	49	2.0	52.86		B5/B14
11	52	2.1	113.40	B5/B14			29	56	2.0	60.63	B5/B14		
9.8	62	1.8	133.45	B5/B14		25	65	1.7	70.00	B5/B14			
7.8	69	1.6	150.18	B5/B14		21	78	1.4	84.63	B5/B14			
7.4	74	1.6	160.43	B5/B14		18	88	1.2	95.61	B5/B14			
5.8	83	1.5	178.83	B5/B14		15	105	1.1	113.40	B5/B14			
4.4	103	1.2	223.92	B5/B14		13	123	0.9	133.45	B5/B14			
7.4	109	1.1	236.83	B5/B14		12	139	0.8	150.18	B5/B14			
5.8	139	0.9	300.07	B5/B14		11	148	0.8	160.43	B5/B14			
4.4	150	0.8	397.38	B5/B14	0.25								
						(0.33 hp)	93	24	3.3	18.75	FT146	B5/B14	
							67	34	2.4	26.17		B5/B14	
						63C4	62	36	2.2	28.26		B5/B14	
						(1750 min ⁻¹)	50	45	2.2	35.07		B5/B14	
							44	51	2.0	39.44		B5/B14	
							38	60	1.7	46.44		B5/B14	
							33	68	1.5	52.86		B5/B14	
							29	78	1.4	60.63		B5/B14	
							25	90	1.2	70.00		B5/B14	
							21	109	1.0	84.63		B5/B14	
							18	123	0.9	95.61		B5/B14	

Nota:

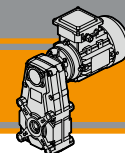
Por favor, compruebe que el par de salida M2 no exceda el valor en las áreas grises

N. B.

Sempre verifique que o torque (M2) não exceda o valor indicado nas tabelas cinzas

N.B.

Please check that the output torque M2 does not exceed the value in the grey areas



Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
------------------------	--	------------------------	----	---	---	---

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
------------------------	--	------------------------	----	---	---	---

0.37

(0.50 hp)	93	36	2.2	18.75	FT146	B5/B14
	67	50	1.6	26.17		B5/B14
71A4	62	54	1.5	28.26		B5/B14
(1750 min ⁻¹)	50	67	1.5	35.07		B5/B14
	44	75	1.3	39.44		B5/B14
	38	88	1.1	46.44		B5/B14
	33	100	1.0	52.86		B5/B14
	29	115	1.0	60.63		B5/B14
	25	133	0.8	70.00		B5/B14
	86	39	9.0	20.41	FT196	B5/B14
	50	66	6.1	34.81		B5/B14
	41	81	5.6	42.61		B5/B14
	29	113	4.4	59.36		B5/B14
	24	138	4.0	72.68		B5/B14
	19	176	3.1	92.82		B5/B14
	14	235	2.3	123.95		B5/B14
	11	300	1.8	158.02		B5/B14
	8.7	383	1.4	201.80		B5/B14
	6.5	511	1.1	269.47		B5/B14

1.5

(2.0 hp)	86	157	2.2	20.41	FT196	B5/B14
	50	268	1.5	34.81		B5/B14
90S4	41	328	1.4	42.61		B5/B14
(1750 min ⁻¹)	29	457	1.1	59.36		B5/B14
	24	559	1.0	72.68		B5/B14

2.2

(3.0 hp)	86	230	1.5	20.41	FT196	B5/B14
	50	393	1.0	34.81		B5/B14
90L4	41	481	0.9	42.61		B5/B14
(1750 min ⁻¹)						

0.55

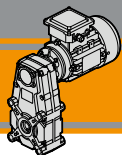
(0.75 hp)	93	53	1.5	18.75	FT146	B5/B14
	67	74	1.1	26.17		B5/B14
71B4	62	80	1.0	28.26		B5/B14
(1750 min ⁻¹)	50	99	1.0	35.07		B5/B14
	44	111	0.90	39.44		B5/B14
	86	58	6.1	20.41	FT196	B5/B14
	50	98	4.1	34.81		B5/B14
	41	120	3.7	42.61		B5/B14
	29	167	3.0	59.36		B5/B14
	24	205	2.7	72.68		B5/B14
	19	262	2.1	92.82		B5/B14
	14	350	1.6	123.95		B5/B14
	11	446	1.2	158.02		B5/B14
	8.7	569	1.0	201.80		B5/B14

0.75

(1.0 hp)	86	79	4.5	20.41	FT196	B5/B14
	50	134	3.0	34.81		B5/B14
80A4	41	164	2.7	42.61		B5/B14
(1750 min ⁻¹)	29	228	2.2	59.36		B5/B14
	24	280	2.0	72.68		B5/B14
	19	357	1.5	92.82		B5/B14
	14	477	1.2	123.95		B5/B14
	11	608	0.9	158.02		B5/B14

1.1

(1.5 hp)	86	115	3.0	20.41	FT196	B5/B14
	50	196	2.0	34.81		B5/B14
80B4	41	240	1.9	42.61		B5/B14
(1750 min ⁻¹)	29	335	1.5	59.36		B5/B14
	24	410	1.3	72.68		B5/B14
	19	524	1.1	92.82		B5/B14



FT

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

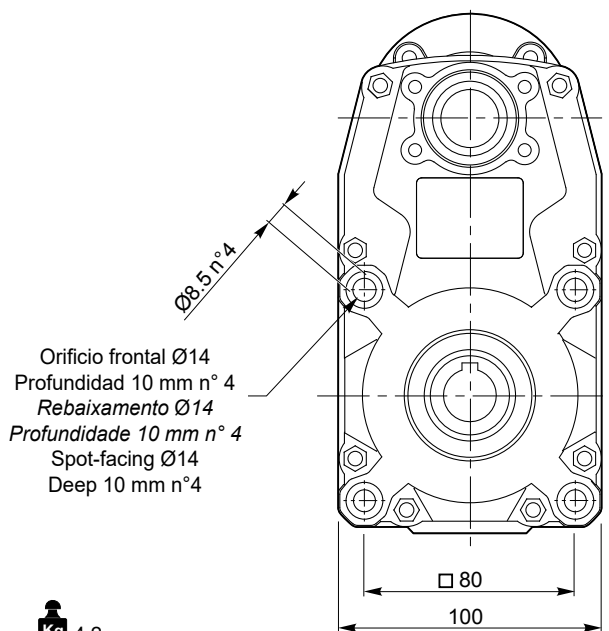
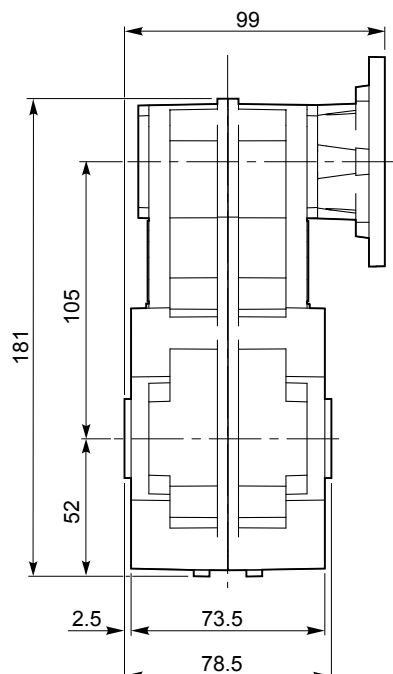
Dimensiones

Dimensões

Dimensions

FT 105

FT 105...U



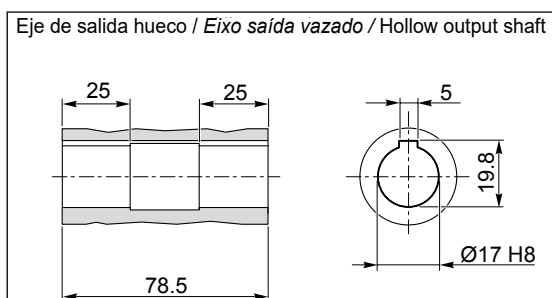
Kg 4.2

Bridas Motor
 Flange do motor
 Input flange

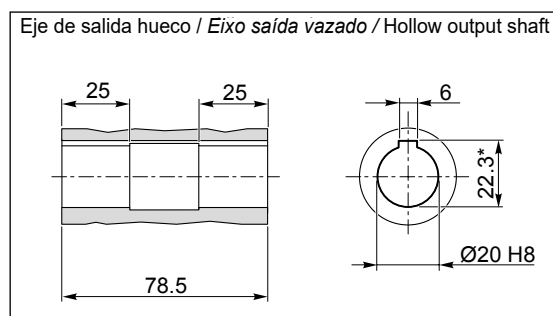


NOTA: Mismos puntos de arreglo en ambos lados
 NOTA: Mesma fixação em ambos os lados
 NOTE: Same fixing points in both sides

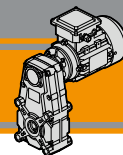
O17



O20



*Ranura especial / Encaixe da chaveta rebaixada / Special Keyway



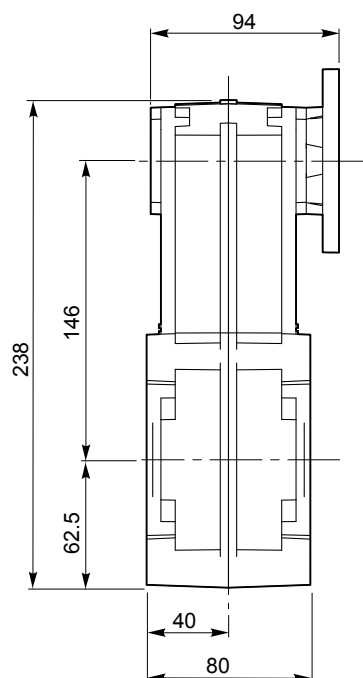
Dimensiones

Dimensões

Dimensions

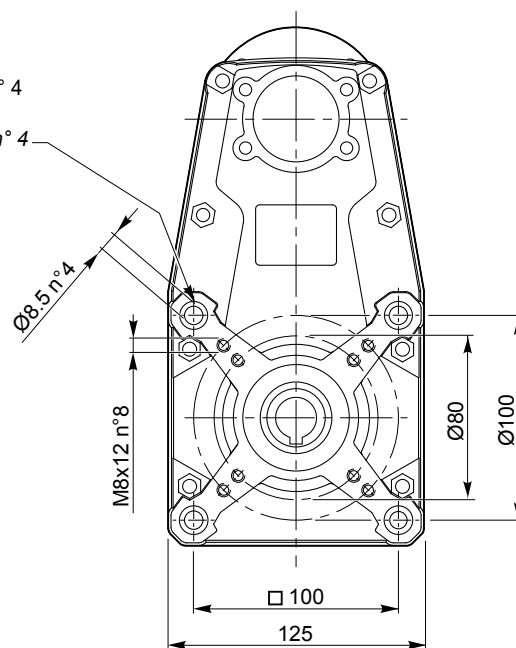
FT 146

FT 146 U



Orificio frontal Ø14
 Profundidad 9.5 mm n° 4
 Rebaixamento Ø14
 Profundidade 9.5 mm n° 4
 Spot-facing Ø14
 Deep 9.5 mm n°4

Kg 4.7



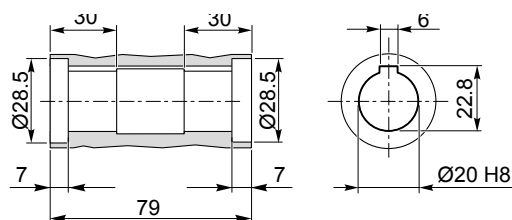
NOTA: Mismos puntos de arreglo en ambos lados
 NOTA: Mesma fixação em ambos os lados
 NOTE: Same fixing points in both sides

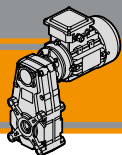
Bridas Motor
 Flange do motor
 Input flange



O20

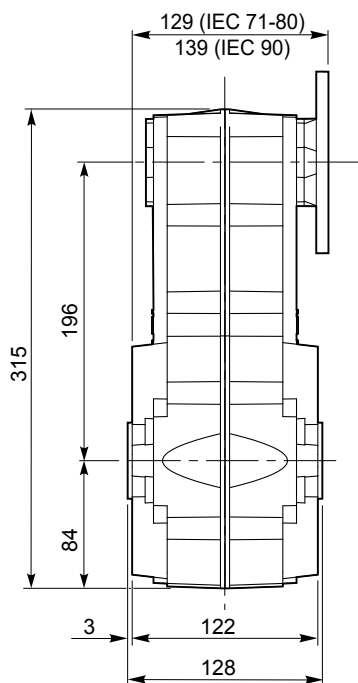
Eje de salida hueco / Eixo saída vazado / Hollow output shaft





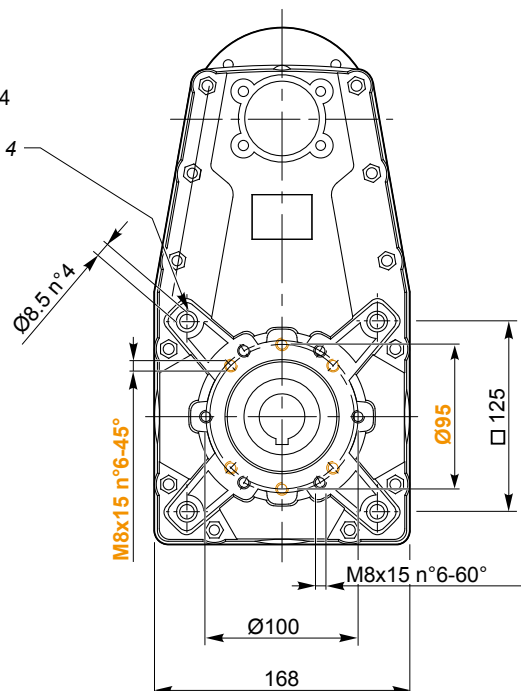
FT 196

FT 196 U



Orificio frontal Ø14
Profundidad 11 mm n° 4
Rebaixamento Ø14
Profundidade 11 mm n° 4
Spot-facing Ø14
Deep 11 mm n° 4

Kg 12.1

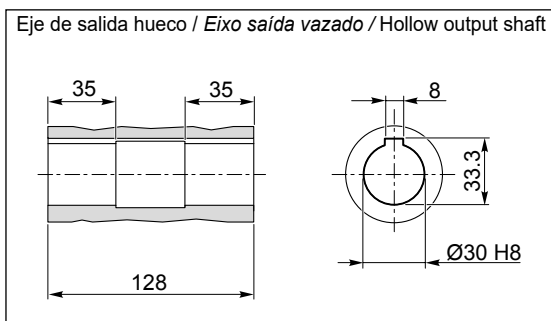


Bridas Motor
Flange do motor
Input flange

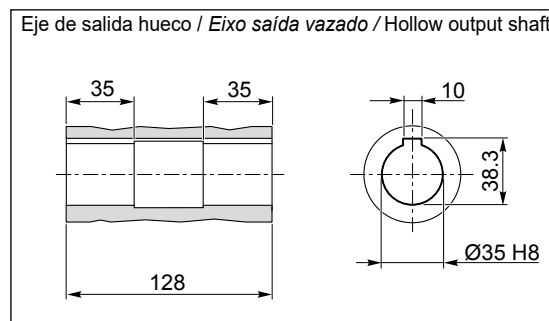


NOTA: Mismos puntos de arreglo en ambos lados
NOTA: Mesma fixação em ambos os lados
NOTE: Same fixing points in both sides

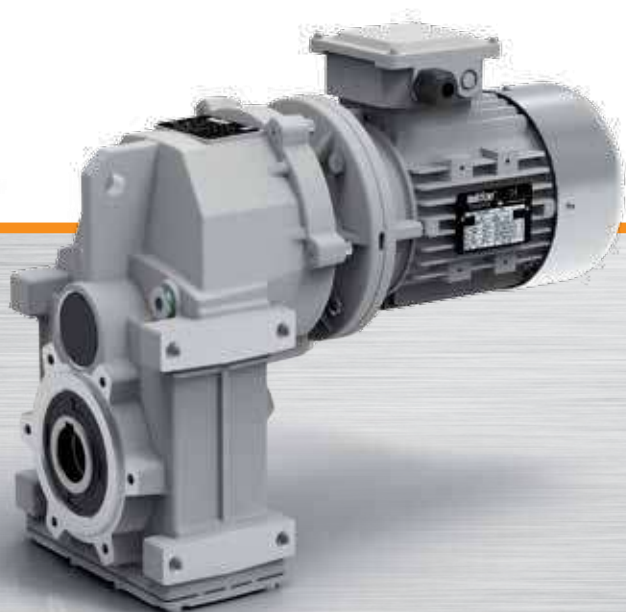
O30

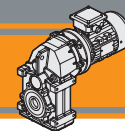


O35



Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors



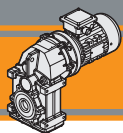


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Lubricación	<i>Lubrificação</i>	Lubrication	F3
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Datos técnicos	<i>Dados técnicos</i>	Technical data	F5
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**ATS****Motorreductores pendulares**
Motoredutores de eixos paralelos
Helical parallel gearmotors**60 Hz****Características técnicas**

El alto grado de modularidad es una característica del diseño de la línea ATS motoredutores pendulares. Es posible configurar la versión requerida usando los kits de entrada y salida.

Las principales características de gama ATS son:

- Carcasas y bridas de entrada de aluminio fundido a presión
- Aceite de lubricación sintética de larga duración.
- Bridas de salida de hierro fundido.

Características técnicas

Os motoredutores da série ATS são caracterizados por um elevado grau de modularidade: a partir de um corpo base, é possível configurar de acordo com os requisitos de diferentes kits de entrada e de saída.

Características comuns a toda a série:

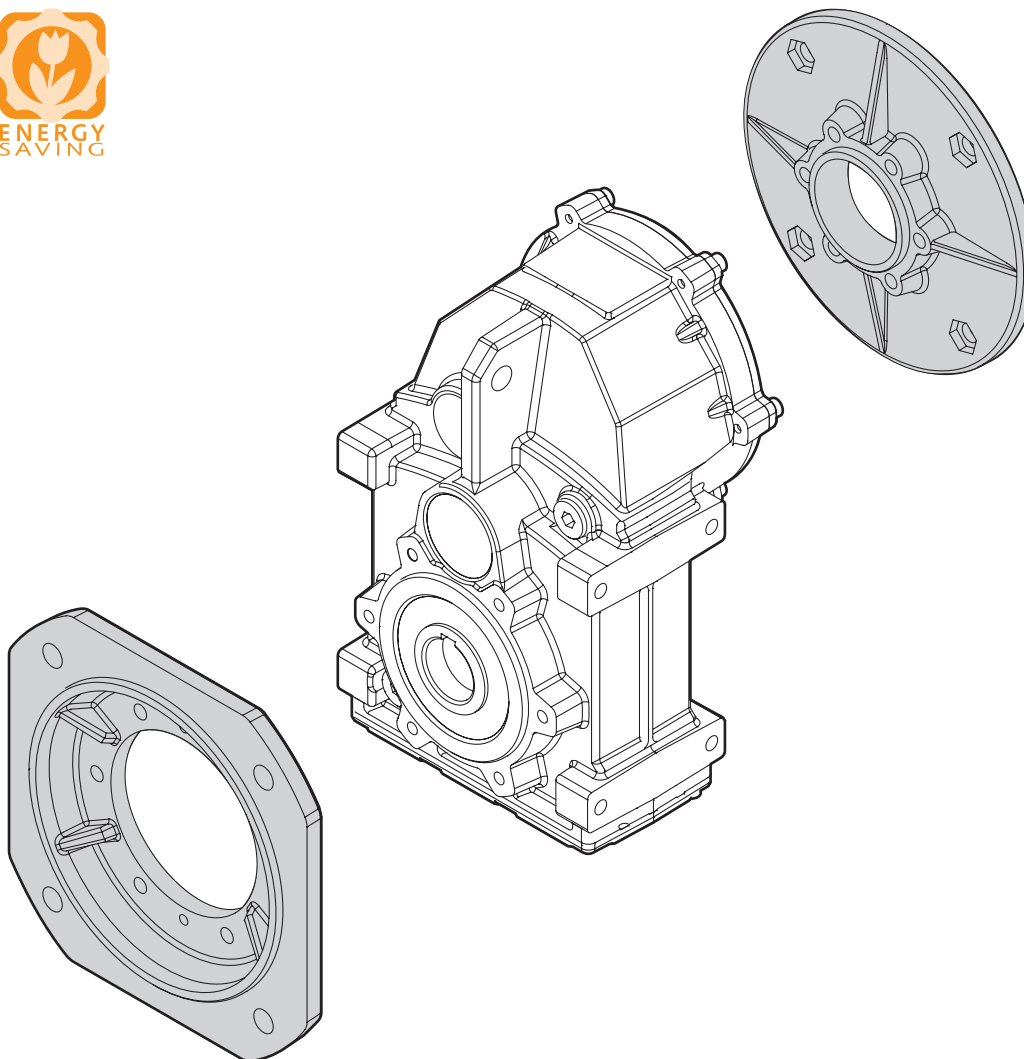
- *Carcaça e Flange de alumínio fundido*
- *Lubrificação permanente com óleo sintético.*
- *Flanges de saída de ferro fundido.*

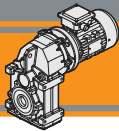
Technical features

The high degree of modularity is a design feature of ATS helical parallel range. It is possible to set up the version required by using input and output kits.

The main features of ATS range are:

- Die-cast aluminum housings and input flanges
- Permanent synthetic oil long-life lubrication.
- Cast iron output flanges.





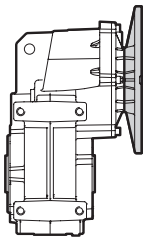
Clasificación

Designação

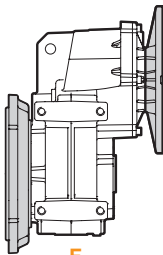
Classification

Relación de reducción
Versão Redutor
Gearbox Version

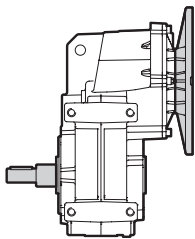
Eje de salida
Eixo de saída
Output shaft



U

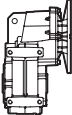


F



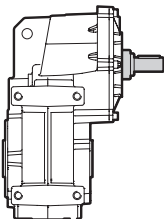
SZ

REDUCTOR / REDUTOR / GEARBOX

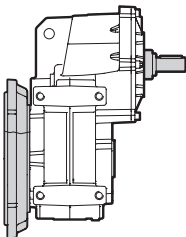
ATS	90	2	U	29.65	D35	90	B5	SZ
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	IEC 	Forma constructiva Forma construtiva Version	Eje de salida Eixo de saída Output shaft
	90 91	2 3	U... F...	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	63.. — 112..	B5 B14	SZ

Relación de reducción
Versão Redutor
Gearbox Version

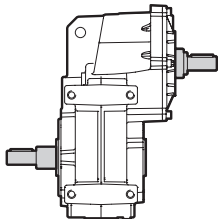
Eje de salida
Eixo de saída
Output shaft



U

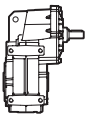


F

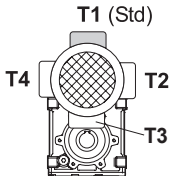


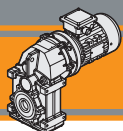
SZ

REDUCTOR / REDUTOR / GEARBOX

ATSIS	90	2	U	29.65	D35	SZ
Tipo Tipo Type	Tamaño Tamanho Size	Etapas Estágios Stages	Versión Versão Version	Relación de reducción Rapporto Ratio	Eje de salida hueco Eixo saída vazado Hollow output shaft	Eje de salida Eixo de saída Output shaft
	90 91	2 3	U... F...	Véase tablas Veja tabelas see tables	Véase tablas Veja tabelas see tables	SZ

MOTOR / MOTOR / MOTOR

0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Véase tablas Veja tabelas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	



ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

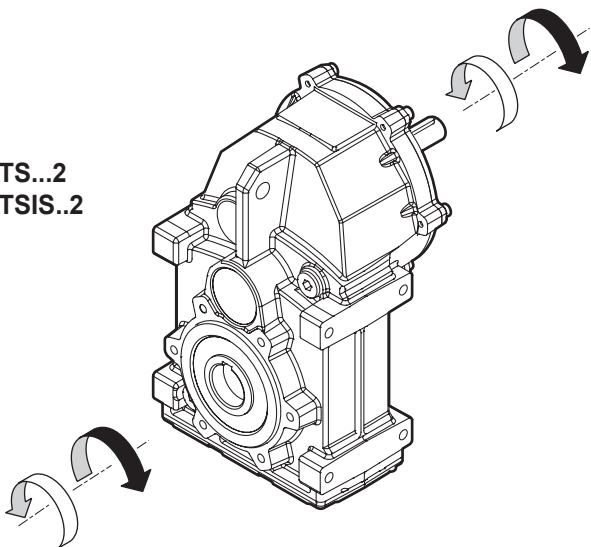
60 Hz

Sentidos de rotación

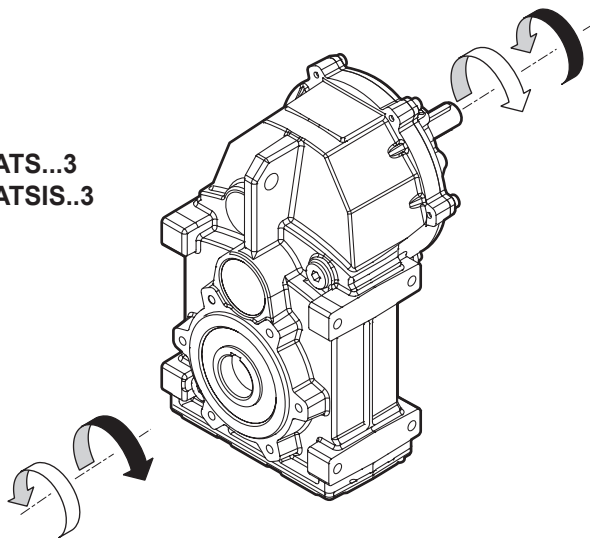
Sentidos de rotação

Direction of rotation

ATS...2
ATSIS..2



ATS...3
ATSIS..3



Nomenclatura

Símbologia

Legend

n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
Pn_1	[kW]	Potencia nominal en la entrada / <i>Potência nominal na entrada</i> / Nominal input power
Mn_2	[Nm]	Par nominal en la salida en función de Pn_1 / <i>Torque nominal na saída em função de Pn_1</i> / Nominal output torque referred to Pn_1
sf		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load

Lubricación

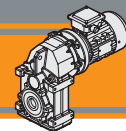
Lubrificação

Lubrication

Todos los motoredutores pendulares son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

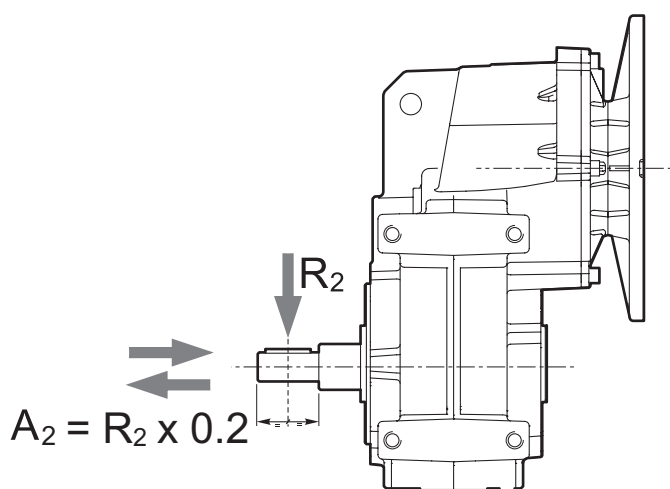
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



Cargas radiales

Cargas radiais

Radial loads

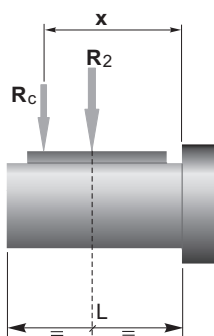


n_2 [min ⁻¹]	R_2 [N]	
	ATS 902 ATS 903	ATS 912 ATS 913
240	2400	3600
180	2400	4200
150	2400	4200
120	2500	4600
100	2800	4800
85	3090	5100
70	3150	5250
55	3630	6000
40	4440	6900
30	5100	7800
20	6000	9500
15	6000	10000
10	6000	10000
5	6000	10000

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

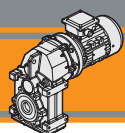


$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

	ATS 902 ATS 903	ATS 912 ATS 913
a	152	174.5
b	97	114.5
R_{2MAX}	6000	10000

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table



ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
---	-------------------------------	----------------	----------------	-----

ATSIS 902

298	200	6.51	5.87
222	250	6.06	7.87
185	300	6.05	9.47
152	350	5.79	11.53
132	350	5.04	13.26
112	350	4.26	15.68
105	350	4.01	16.68
92	400	4.00	19.09
80	400	3.48	21.96
66	400	2.88	26.50
63	400	2.77	27.61
59	400	2.58	29.65
52	400	2.28	33.49
49	400	2.13	35.87
46	400	2.04	38.29
40	400	1.78	43.88
36	400	1.59	49.09
33	350	1.29	52.71
32	400	1.41	55.45
28	400	1.23	63.41
24	400	1.06	73.64
20	400	0.89	87.27

IEC Motori applicabili
IEC Motor adapters

71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				
B				
B				*
B				*
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B			*	*
B		*	*	*
B		*	*	*
B		*	*	*

ATSIS 903

17	400	0.78	100.33
14	400	0.62	125.89
13	400	0.59	131.65
13	400	0.56	139.88
12	400	0.52	151.07
11	400	0.47	166.13
10	400	0.45	172.40
8.4	400	0.37	208.45
7.8	400	0.35	223.41
7.0	400	0.31	250.14
5.4	400	0.24	323.65
5.1	400	0.23	345.59
4.7	400	0.21	376.15
4.1	400	0.18	424.21

63 B5	71 B5/B14	80 B5/B14	90 B5/B14
			*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
	*	*	*
	*	*	*
	*	*	*
	*	*	*
	*	*	*
	*	*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.



* El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas F8 a la F11.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.



* O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas F8 a pag. F11.

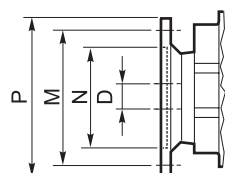
N.B.

Highlighted areas indicate motor inputs available on each size of unit.



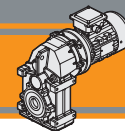
* The service factor (sf) has to be selected depending on application: please contact our Technical Department.

Before selecting any gearbox, please read the performance values shown in the tables on page on page F8 to F11.



Dimensioni IEC / IEC Dimensions

	63 B5	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	



Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
ATSIS 912				
	306	350	11.69	5.71
	228	350	8.72	7.66
	198	400	8.63	8.85
	190	400	8.28	9.22
	147	400	6.43	11.87
	122	500	6.68	14.29
	101	500	5.49	17.39
	87	500	5.72	20.01
	70	600	4.55	25.16
	61	500	4.05	28.88
	54	600	3.58	32.69
	47	520	2.72	37.30
	44	600	2.93	39.98
	39	600	2.62	44.73
	35	600	2.31	50.53
	30	600	2.02	57.77
	26	600	1.74	67.09
	22	520	1.27	79.52

IEC Motores aplicables
IEC Motores aplicáveis
IEC Motor adapters

71 B5	80 B5/B14	90 B5/B14	100 B5/B14	112 B5/B14
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				
B				*
B				*
B				*
B				*
B			*	*
B			*	*
B			*	*
B			*	*

ATSIS913

	21	600	1.42	82.28
	19	600	1.24	93.96
	17	600	1.15	101.41
	14	600	0.95	122.61
	13	600	0.89	131.41
	12	600	0.79	147.13
	11	600	0.74	157.08
	9.2	600	0.62	189.92
	8.6	600	0.57	203.55
	7.7	600	0.51	227.91
	5.9	600	0.40	294.88
	5.6	600	0.37	314.87
	5.1	600	0.34	342.72
	4.5	600	0.30	386.51

63 B5	71 B5/B14	80 B5/B14	90 B5/B14
			*
			*
			*
			*
			*
			*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*
		*	*

NOTA

Las áreas resaltadas indican el tamaño de carcasa del motor correspondiente.



* El Factor de servicio (sf) se deberá seleccionar con respecto a la aplicación: Favor de contactar con nuestro Servicio Técnico

Antes de seleccionar cualquier reductor, favor de revisar los valores de desempeño en las páginas F8 a la F11.

N.B.

As áreas destacadas indicam a aplicabilidade correspondente ao tamanho do motor.



* O fator de serviço (sf) deve ser escolhido em função da aplicação: entre em contato com o nosso Serviço Técnico.

Antes de executar a escolha do motoredutor analisar o desempenho listado nas tabelas das páginas F8 a pag. F11.

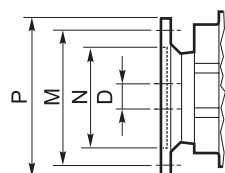
N.B.

Highlighted areas indicate motor inputs available on each size of unit.

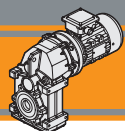


* The service factor (sf) has to be selected depending on application: please contact our Technical Department.

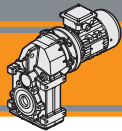
Before selecting any gearbox, please read the performance values shown in the tables on page on page F8 to F11.



Dimensioni IEC / IEC Dimensions									
	63 B5	71 B5	71 B14	80 B5	80 B14	90 B5	90 B14	100/112 B5	100/112 B14
N	95	110	70	130	80	130	95	180	110
M	115	130	85	165	100	165	115	215	130
P	140	160	105	200	120	200	140	250	160
D	11	14		19		24		28	

**ATS****Motorreductores pendulares**
Motoredutores de eixos paralelos
Helical parallel gearmotors**60 Hz****Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				
0.12							0.25								
(0.16 hp)	17	62	6.5	100.33	ATS903	B5	(0.33 hp)	17	129	3.1	100.33	ATS903	B5		
63A4 (1750 min ⁻¹)	14	77	5.2	125.89		B5	63C4 (1750 min ⁻¹)	14	161	2.5	125.89		B5		
	13	81	4.9	131.65		B5		13	169	2.4	131.65		B5		
	13	86	4.6	139.88		B5		13	179	2.2	139.88		B5		
	12	93	4.3	151.07		B5		12	194	2.1	151.07		B5		
	11	102	3.9	166.13		B5		11	213	1.9	166.13		B5		
	10	106	3.8	172.40		B5		10	221	1.8	172.40		B5		
	8.4	128	3.1	208.45		B5		8.4	267	1.5	208.45		B5		
	7.8	138	2.9	223.41		B5		7.8	287	1.4	223.41		B5		
	7.0	154	2.6	250.14		B5		7.0	321	1.2	250.14		B5		
	5.4	199	2.0	323.65		B5		5.4	415	1.0	323.65		B5		
	5.1	213	1.9	345.59		B5		5.1	443	0.9	345.59		B5		
	4.7	232	1.7	376.15		B5		ATS913	11	201	3.0	157.08	B5/B14		
	4.1	261	1.5	424.21		B5			9.2	244	2.5	189.92	B5/B14		
	ATS913	7.7	140	4.3	227.91	B5			8.6	261	2.3	203.55	B5/B14		
5.9		182	3.3	294.88	B5	7.7	292		2.1	227.91	B5/B14				
5.6		194	3.1	314.87	B5	5.9	378		1.6	294.88	B5/B14				
5.1		211	2.8	342.72	B5	5.6	404		1.5	314.87	B5/B14				
4.5		238	2.5	386.51	B5	5.1	440		1.4	342.72	B5/B14				
						4.5	496		1.2	386.51	B5/B14				
0.18							0.37								
(0.25 hp)		17	93	4.3	100.33	ATS903	B5		(0.50 hp)	298	11	17.6	5.87	ATS902	B5
63B4 (1750 min ⁻¹)	14	116	3.4	125.89	B5		71A4 (1750 min ⁻¹)	222	15	16.4	7.87	B5			
	13	122	3.3	131.65	B5			185	18	16.3	9.47	B5			
	13	129	3.1	139.88	B5			152	22	15.7	11.53	B5			
	12	139	2.9	151.07	B5			132	26	13.6	13.26	B5			
	11	153	2.6	166.13	B5			112	30	11.5	15.68	B5			
	10	159	2.5	172.40	B5			105	32	10.8	16.68	B5			
	8.4	192	2.1	208.45	B5			92	37	10.8	19.09	B5			
	7.8	206	1.9	223.41	B5			80	43	9.4	21.96	B5			
	7.0	231	1.7	250.14	B5			66	51	7.8	26.50	B5			
	5.4	299	1.3	323.65	B5			63	54	7.5	27.61	B5			
	5.1	319	1.3	345.59	B5			59	57	7.0	29.65	B5			
	4.7	347	1.2	376.15	B5			52	65	6.2	33.49	B5			
	4.1	392	1.0	424.21	B5			49	70	5.8	35.87	B5			
	ATS913	9.2	175	3.4	189.92	B5		46	73	5.5	38.29	B5			
8.6		188	3.2	203.55	B5	40	83	4.8	43.88	B5					
7.7		210	2.9	227.91	B5	36	93	4.3	49.09	B5					
5.9		272	2.2	294.88	B5	33	100	3.5	52.71	B5					
5.6		291	2.1	314.87	B5	32	105	3.8	55.45	B5					
5.1		316	1.9	342.72	B5	28	120	3.3	63.41	B5					
4.5		357	1.7	386.51	B5	24	140	2.9	73.64	B5					
						20	166	2.4	87.27	B5					

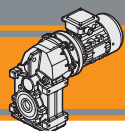


Datos técnicos

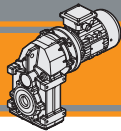
Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.37							0.55							
(0.50 hp) 71A4 (1750 min ⁻¹)	17	190	2.1	100.33	ATS903	B5/B14	(0.75 hp) 71B4 (1750 min ⁻¹)	21	232	2.6	82.28	ATS913	B5/B14	
	14	239	1.7	125.89		B5/B14		19	265	2.3	93.96		B5/B14	
	13	250	1.6	131.65		B5/B14		17	286	2.1	101.41		B5/B14	
	12	265	1.5	139.88		B5/B14		14	346	1.7	122.61		B5/B14	
	12	287	1.4	151.07		B5/B14		13	371	1.6	131.41		B5/B14	
	11	315	1.3	166.13		B5/B14		12	415	1.4	147.13		B5/B14	
	10	327	1.2	172.40		B5/B14		11	443	1.4	157.08		B5/B14	
	8.4	396	1.0	208.45		B5/B14		9.2	536	1.1	189.92		B5/B14	
	7.8	424	0.9	223.41	B5/B14	8.6	574	1.0	203.55	B5/B14				
					ATS913	B5/B14	7.7	643	0.9	227.91	B5/B14			
	21	156	3.8	82.28		B5/B14	0.75							
	19	178	3.4	93.96		B5/B14	(1.0 hp) 80A4 (1750 min ⁻¹)	298	23	8.7	5.87	ATS902	B5/B14	
	17	192	3.1	101.41		B5/B14		222	31	8.1	7.87		B5/B14	
	14	233	2.6	122.61		B5/B14		185	37	8.1	9.47		B5/B14	
	13	249	2.4	131.41		B5/B14		152	45	7.7	11.53		B5/B14	
	12	279	2.1	147.13		B5/B14		132	52	6.7	13.26		B5/B14	
	11	298	2.0	157.08		B5/B14		112	62	5.7	15.68		B5/B14	
	9.2	360	1.7	189.92		B5/B14		105	66	5.3	16.68		B5/B14	
8.6	386	1.6	203.55	B5/B14		92		75	5.3	19.09	B5/B14			
7.7	433	1.4	227.91	B5/B14	80	86		4.6	21.96	B5/B14				
5.9	560	1.1	294.88	B5/B14	66	104		3.8	26.50	B5/B14				
5.6	598	1.0	314.87	B5/B14	63	108		3.7	27.61	B5/B14				
5.1	650	0.9	342.72	B5/B14	59	116		3.4	29.65	B5/B14				
0.55								52	132	3.0	33.49		B5/B14	
(0.75 hp) 71B4 (1750 min ⁻¹)	298	17	11.8	5.87	ATS902	B5		49	141	2.8	35.87		B5/B14	
	222	23	11.0	7.87		B5		46	147	2.7	38.29		B5/B14	
	185	27	11.0	9.47		B5		40	169	2.4	43.88		B5/B14	
	152	33	10.5	11.53		B5	36	189	2.1	49.09	B5/B14			
	132	38	9.2	13.26		B5	33	203	1.7	52.71	B5/B14			
	112	45	7.7	15.68		B5	32	213	1.9	55.45	B5/B14			
	105	48	7.3	16.68		B5	28	244	1.6	63.41	B5/B14			
	92	55	7.3	19.09		B5	24	283	1.4	73.64	B5/B14			
	80	63	6.3	21.96		B5	20	336	1.2	87.27	B5/B14			
	66	76	5.2	26.50		B5						ATS903	B5/B14	
	63	80	5.0	27.61		B5	17	386	1.0	100.33	B5/B14			
	59	85	4.7	29.65		B5							ATS912	B5/B14
	52	96	4.1	33.49		B5	47	143	3.6	37.30	B5/B14			
	49	103	3.9	35.87		B5	44	154	3.9	39.98	B5/B14			
	46	108	3.7	38.29		B5	39	172	3.5	44.73	B5/B14			
	40	124	3.2	43.88		B5	35	194	3.1	50.53	B5/B14			
	36	139	2.9	49.09		B5	30	222	2.7	57.77	B5/B14			
	33	149	2.4	52.71		B5	26	258	2.3	67.09	B5/B14			
	32	156	2.6	55.45		B5	22	306	1.7	79.52	B5/B14			
	28	179	2.2	63.41		B5						ATS913	B5/B14	
	24	208	1.9	73.64		B5	21	317	1.9	82.28	B5/B14			
	20	246	1.6	87.27		B5	19	361	1.7	93.96	B5/B14			
					ATS903	B5/B14	17	390	1.5	101.41	B5/B14			
	17	283	1.4	100.33		B5/B14	14	472	1.3	122.61	B5/B14			
	14	355	1.1	125.89		B5/B14	13	506	1.2	131.41	B5/B14			
	13	371	1.1	131.65		B5/B14	12	566	1.1	147.13	B5/B14			
	13	395	1.0	139.88		B5/B14	11	604	1.0	157.08	B5/B14			
	12	426	0.9	151.07		B5/B14						ATS912	B5/B14	
	11	469	0.9	166.13		B5/B14							B5/B14	
	35	143	4.2	50.53	ATS912	B5								
	30	163	3.7	57.77		B5								
	26	189	3.2	67.09		B5								
22	224	2.3	79.52	B5										

**ATS****Motorreductores pendulares**
Motoredutores de eixos paralelos
Helical parallel gearmotors**60 Hz****Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
1.1							1.5						
(1.5 hp)	298	34	5.9	5.87	ATS902	B5/B14	(2.0 hp)	101	137	3.7	17.39	ATS912	B5/B14
	222	45	5.5	7.87		B5/B14		87	157	3.2	20.01		B5/B14
80B4	185	55	5.5	9.47		B5/B14	90S4	70	198	3.0	25.16		B5/B14
(1750 min ⁻¹)	152	66	5.3	11.53		B5/B14	(1750 min ⁻¹)	61	222	2.3	28.88		B5/B14
	132	76	4.6	13.26		B5/B14		54	251	2.4	32.69		B5/B14
	112	90	3.9	15.68		B5/B14		47	287	1.8	37.30		B5/B14
	105	96	3.6	16.68		B5/B14		44	308	2.0	39.98		B5/B14
	92	110	3.6	19.09		B5/B14		39	344	1.7	44.73		B5/B14
	80	127	3.2	21.96		B5/B14		35	389	1.5	50.53		B5/B14
	66	153	2.6	26.50		B5/B14		30	445	1.3	57.77		B5/B14
	63	159	2.5	27.61		B5/B14		26	516	1.2	67.09		B5/B14
	59	171	2.3	29.65		B5/B14						ATS913	
	52	193	2.1	33.49		B5/B14		21	633	0.9	82.28		B5/B14
	49	207	1.9	35.87		B5/B14							
	46	216	1.9	38.29		B5/B14							
	40	248	1.6	43.88		B5/B14							
	36	277	1.4	49.09		B5/B14							
	32	313	1.3	55.45		B5/B14							
	28	358	1.1	63.41		B5/B14							
	24	416	1.0	73.64		B5/B14							
	61	163	3.2	28.88	ATS912	B5/B14							
	54	184	3.3	32.69		B5/B14							
	47	210	2.5	37.30		B5/B14							
	44	226	2.7	39.98		B5/B14							
	39	252	2.4	44.73		B5/B14							
	35	285	2.1	50.53		B5/B14							
	30	326	1.8	57.77		B5/B14							
	26	379	1.6	67.09		B5/B14							
	21	464	1.3	82.28	ATS913	B5/B14							
	19	530	1.1	93.96		B5/B14							
	17	572	1.0	101.41		B5/B14							
	14	692	0.9	122.61		B5/B14							
1.5							2.2						
(2.0 hp)	298	46	4.3	5.87	ATS902	B5/B14	(3.0 hp)	298	68	3.0	5.87	ATS902	B5/B14
	222	62	4.0	7.87		B5/B14		222	91	2.8	7.87		B5/B14
90S4	185	74	4.0	9.47		B5/B14	90L4	185	109	2.7	9.47		B5/B14
(1750 min ⁻¹)	152	91	3.9	11.53		B5/B14	(1750 min ⁻¹)	152	133	2.6	11.53		B5/B14
	132	104	3.4	13.26		B5/B14		132	153	2.3	13.26		B5/B14
	112	123	2.8	15.68		B5/B14		112	181	1.9	15.68		B5/B14
	105	131	2.7	16.68		B5/B14		105	192	1.8	16.68		B5/B14
	92	150	2.7	19.09		B5/B14		92	220	1.8	19.09		B5/B14
	80	173	2.3	21.96		B5/B14		80	253	1.6	21.96		B5/B14
	66	208	1.9	26.50		B5/B14		66	305	1.3	26.50		B5/B14
	63	217	1.8	27.61		B5/B14		63	318	1.3	27.61		B5/B14
	59	233	1.7	29.65		B5/B14		59	342	1.2	29.65		B5/B14
	52	263	1.5	33.49		B5/B14		52	386	1.0	33.49		B5/B14
	49	282	1.4	35.87		B5/B14		49	413	1.0	35.87		B5/B14
	46	295	1.4	38.29		B5/B14						ATS912	
	40	338	1.2	43.88		B5/B14		306	66	5.3	5.71		B5/B14
	36	378	1.1	49.09		B5/B14		228	88	4.0	7.66		B5/B14
								198	102	3.9	8.85		B5/B14
								190	106	3.8	9.22		B5/B14
								147	137	2.9	11.87		B5/B14
								122	165	3.0	14.29		B5/B14
								101	200	2.5	17.39		B5/B14
								87	231	2.2	20.01		B5/B14
								70	290	2.1	25.16		B5/B14
								61	326	1.5	28.88		B5/B14
								54	369	1.6	32.69		B5/B14
								44	451	1.3	39.98		B5/B14
								39	505	1.2	44.73		B5/B14
								35	570	1.1	50.53		B5/B14

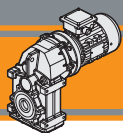


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
3.0							4.5						
(4.0 hp)	298	92	2.2	5.87	ATS902	B5/B14	(6.0 hp)	298	138	1.4	5.87	ATS902	B5/B14
	222	124	2.0	7.87		B5/B14		222	186	1.3	7.87		B5/B14
100LA4	185	149	2.0	9.47		B5/B14	112MA4	185	223	1.3	9.47		B5/B14
(1750 min ⁻¹)	152	181	1.9	11.53		B5/B14	(1750 min ⁻¹)	152	272	1.3	11.53		B5/B14
	132	208	1.7	13.26		B5/B14		132	313	1.1	13.26		B5/B14
	112	246	1.4	15.68		B5/B14		112	370	0.9	15.68		B5/B14
	105	262	1.3	16.68		B5/B14		105	393	0.9	16.68		B5/B14
	92	300	1.3	19.09		B5/B14		92	450	0.9	19.09		B5/B14
	80	345	1.2	21.96		B5/B14							
	66	417	1.0	26.50		B5/B14		306	135	2.6	5.71	ATS912	B5/B14
	63	434	0.9	27.61		B5/B14		228	181	1.9	7.66		B5/B14
								198	209	1.9	8.85		B5/B14
	306	90	3.9	5.71	ATS912	B5/B14		190	217	1.8	9.22		B5/B14
	228	120	2.9	7.66		B5/B14		147	280	1.4	11.87		B5/B14
	198	139	2.9	8.85		B5/B14		122	337	1.5	14.29	B5/B14	
	190	145	2.8	9.22		B5/B14		101	410	1.2	17.39	B5/B14	
	147	187	2.1	11.87		B5/B14		87	472	1.1	20.01	B5/B14	
	122	225	2.2	14.29		B5/B14		70	593	1.0	25.16	B5/B14	
	101	273	1.8	17.39		B5/B14							
	87	314	1.6	20.01		B5/B14							
	70	395	1.5	25.16		B5/B14							
	61	444	1.1	28.88		B5/B14							
	54	503	1.2	32.69		B5/B14							
	44	615	1.0	39.98		B5/B14							
	39	688	0.9	44.73		B5/B14							
3.7							5.5						
(5.0 hp)	298	114	1.8	5.87	ATS902	B5/B14	(7.5 hp)	298	169	1.2	5.87	ATS902	B5/B14
	222	153	1.6	7.87		B5/B14		222	227	1.1	7.87		B5/B14
100LB4	185	184	1.6	9.47		B5/B14		185	273	1.1	9.47		B5/B14
(1750 min ⁻¹)	152	223	1.6	11.53		B5/B14	112MB4	152	332	1.1	11.53		B5/B14
	132	257	1.4	13.26		B5/B14	(1750 min ⁻¹)	132	382	0.9	13.26		B5/B14
	112	304	1.2	15.68		B5/B14							
	105	323	1.1	16.68		B5/B14		306	165	2.1	5.71	ATS912	B5/B14
	92	370	1.1	19.09		B5/B14		228	221	1.6	7.66		B5/B14
	80	426	0.9	21.96		B5/B14		198	255	1.6	8.85		B5/B14
								190	266	1.5	9.22		B5/B14
	306	111	3.2	5.71	ATS912	B5/B14		147	342	1.2	11.87		B5/B14
	228	149	2.4	7.66		B5/B14		122	412	1.2	14.29		B5/B14
	198	172	2.3	8.85		B5/B14		101	501	1.0	17.39		B5/B14
	190	179	2.2	9.22		B5/B14		87	577	0.9	20.01		B5/B14
	147	230	1.7	11.87		B5/B14							
	122	277	1.8	14.29		B5/B14							
	101	337	1.5	17.39		B5/B14							
	87	388	1.3	20.01		B5/B14							
	70	488	1.2	25.16		B5/B14							
	61	548	0.9	28.88		B5/B14							
	54	620	1.0	32.69	B5/B14								



ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

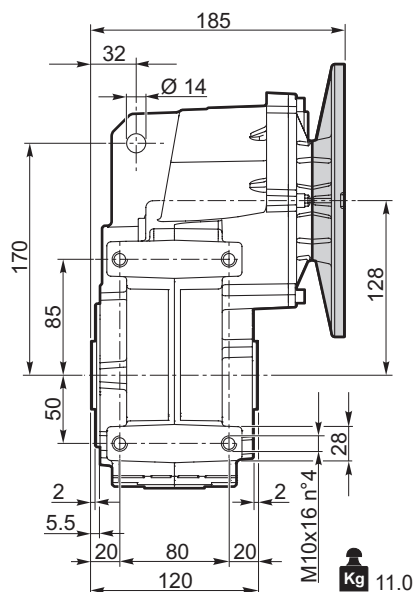
Dimensiones

Dimensões

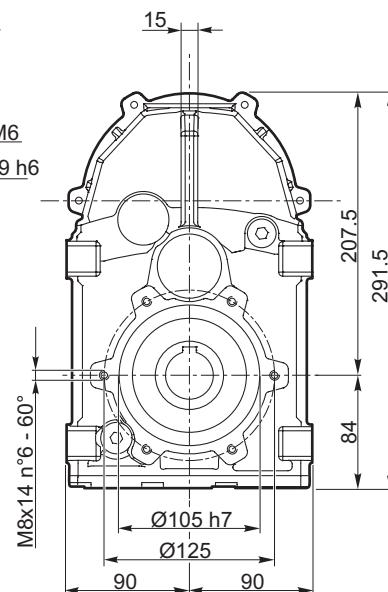
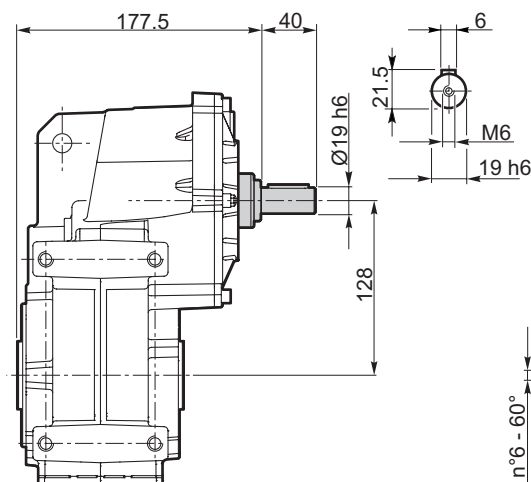
Dimensions

ATS 902

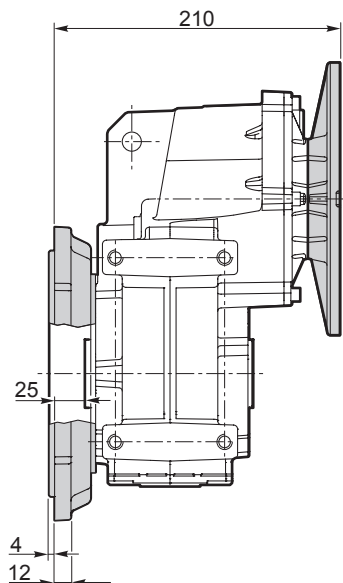
ATS 902 U..



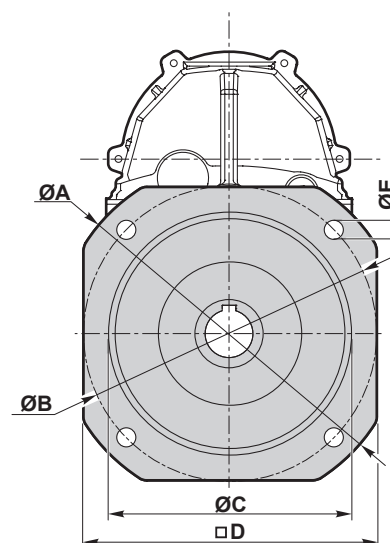
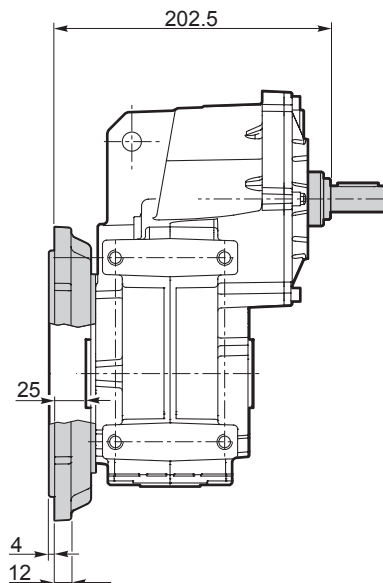
ATSIS 902 U..



ATS 902 F..



ATSIS 902 F..

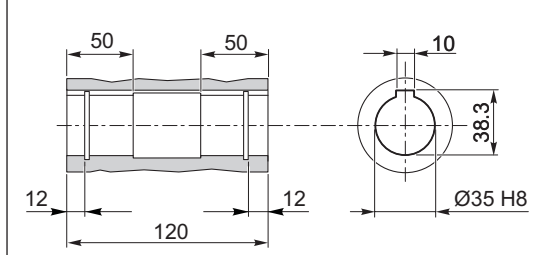
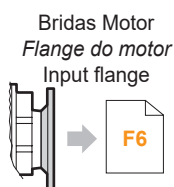


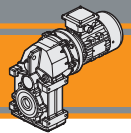
Versión F / Versão F / F Version

ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
902	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 902.. D35 - ATSIS 902.. D35

Eje de salida hueco / Eixo saída vazado / Hollow output shaft





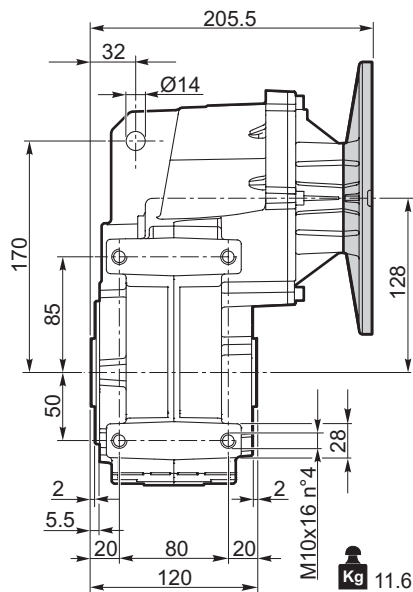
Dimensiones

Dimensões

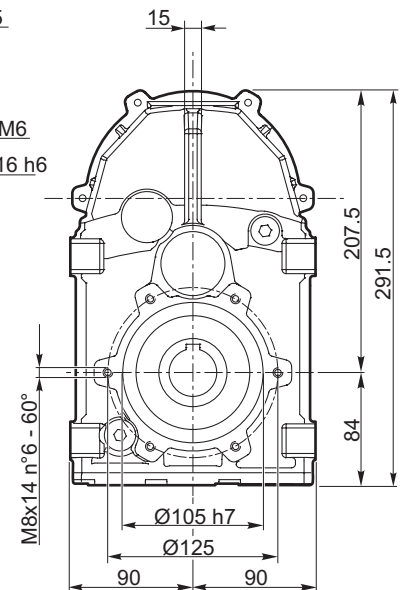
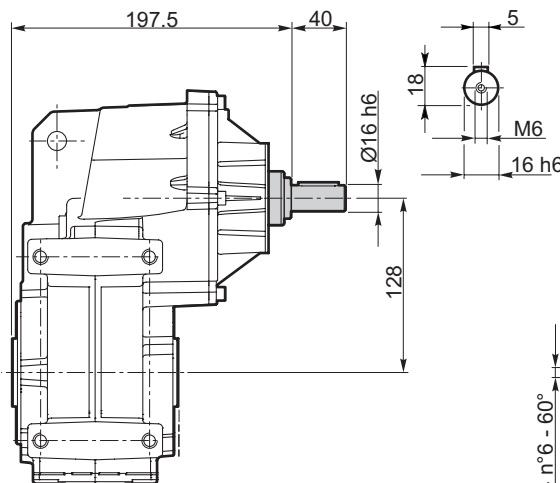
Dimensions

ATS 903

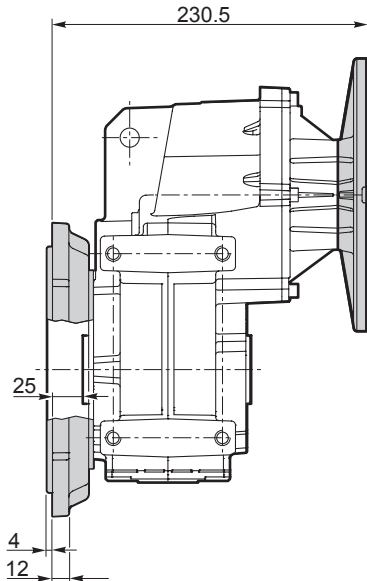
ATS 903 U..



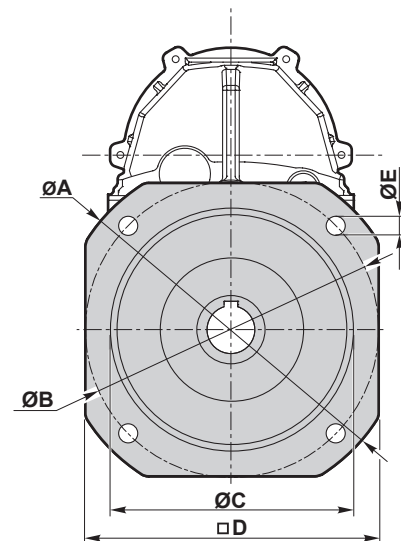
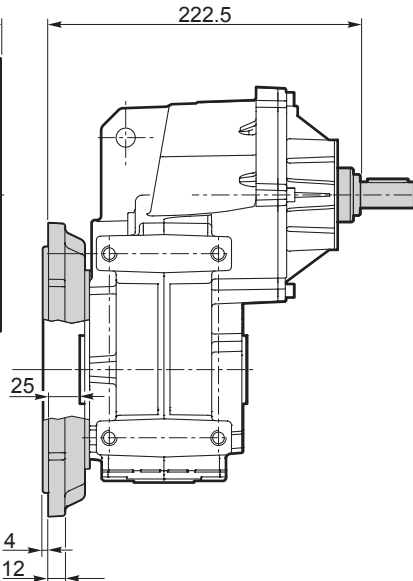
ATSIS 903 U..



ATS 903 F..



ATSIS 903 F..



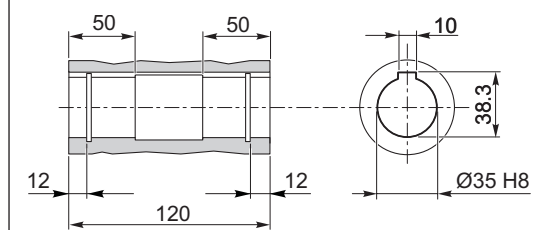
Versión F / Versão F / F Version

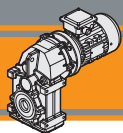
ATS ATSIS	ØA	ØB	ØC f7	D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
903	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 903.. D35 - ATSIS 903.. D35

Eje de salida hueco / Eixo saída vazado / Hollow output shaft

Bridas Motor
Flange do motor
Input flange





ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

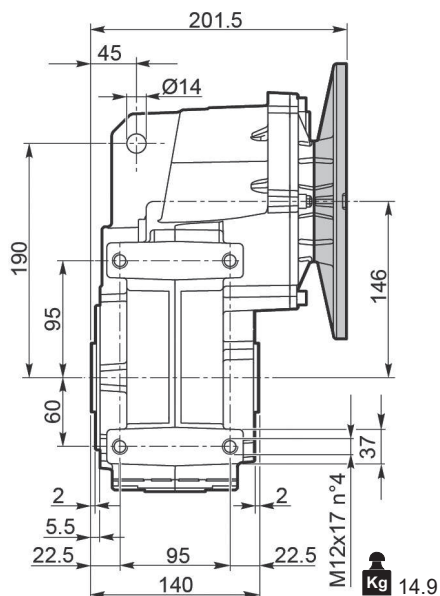
Dimensiones

Dimensões

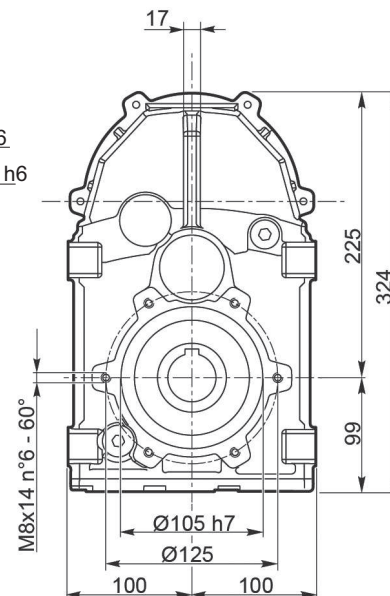
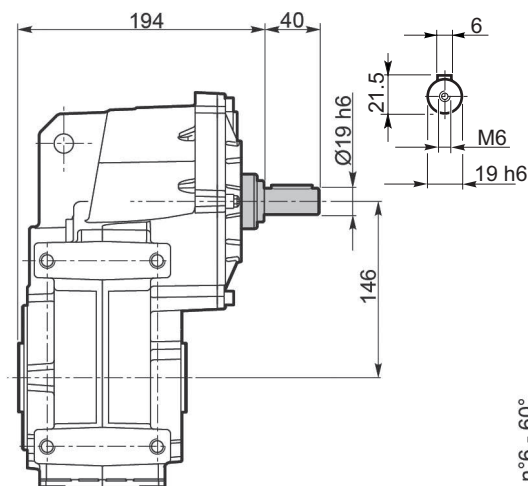
Dimensions

ATS 912

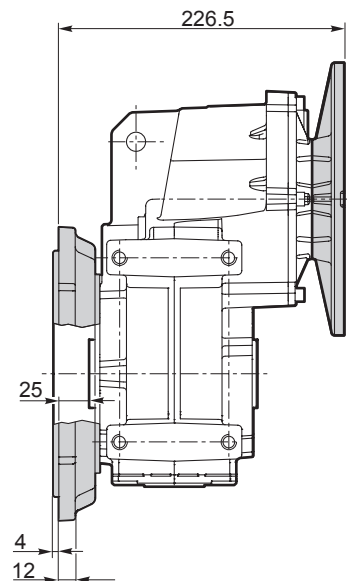
ATS 912 U..



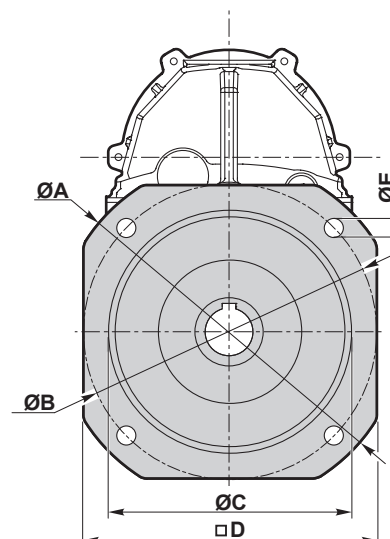
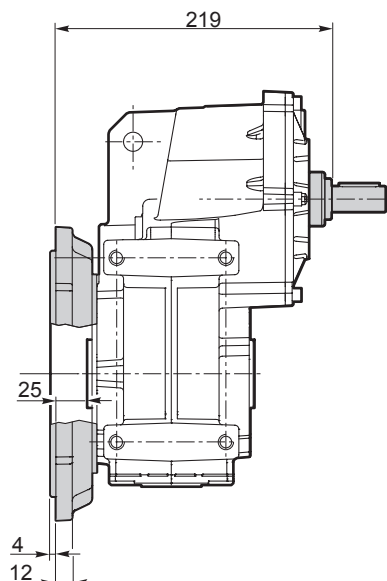
ATSIS 912 U..



ATS 912 F..



ATSIS 912 F..

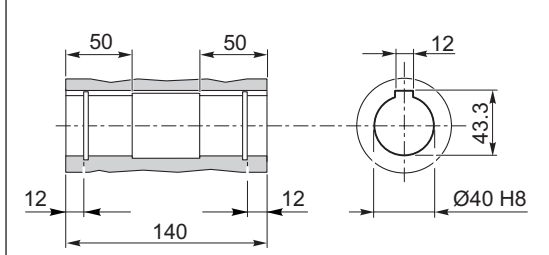
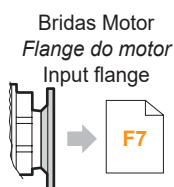


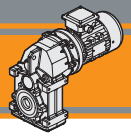
Versión F / Versão F / F Version

ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
912	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 912.. D40 - ATSIS 912.. D40

Eje de salida hueco / Eixo saída vazado / Hollow output shaft





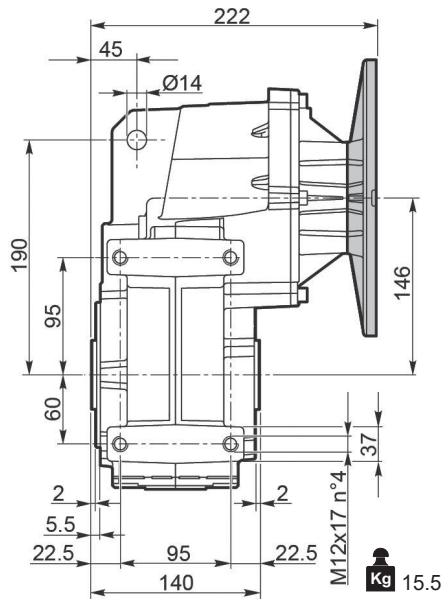
Dimensiones

Dimensões

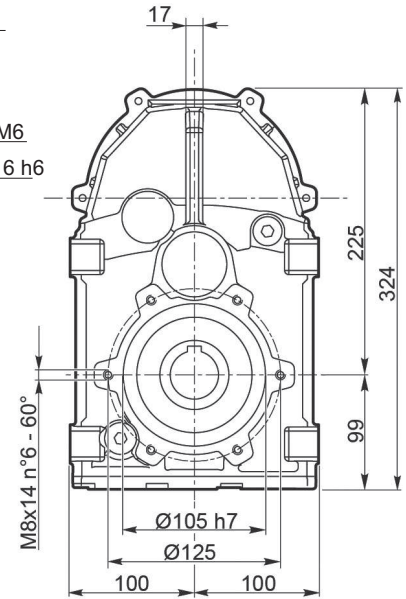
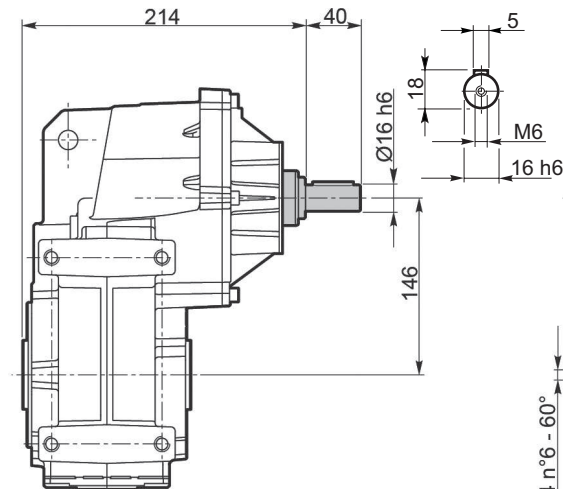
Dimensions

ATS 913

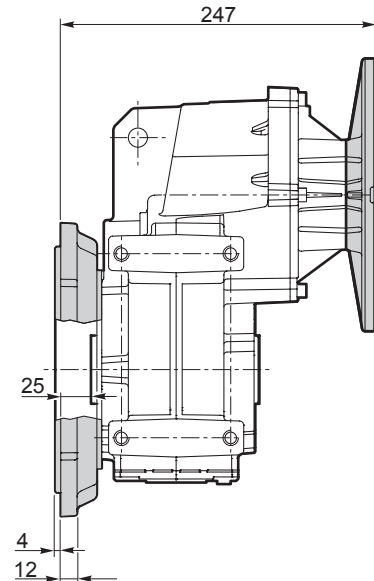
ATS 913 U..



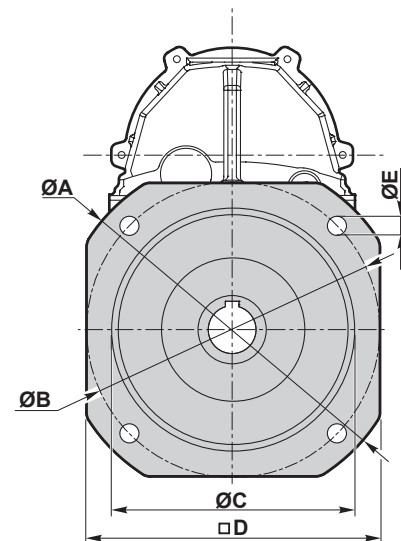
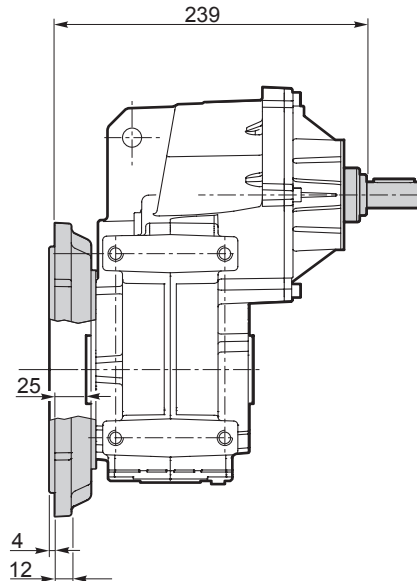
ATSIS 913 U..



ATS 913 F..



ATSIS 913 F..



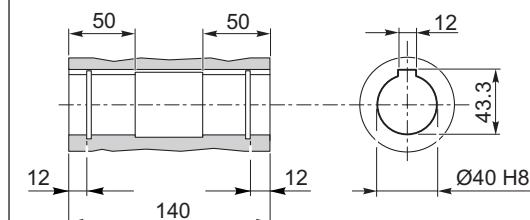
Versión F / Versão F / F Version

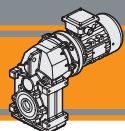
ATS ATSIS	ØA	ØB	ØC f7	□D	ØE	Brida / Flange / Flange	
						Tipo / Tipo / Type	Peso / Peso / Weight [kg]
913	200	165	130	165	11	F200	2
	250	215	180	215	14	F250	3.2

ATS 913.. D40 - ATSIS 913.. D40

Eje de salida hueco / Eixo saída vazado / Hollow output shaft

Bridas Motor
Flange do motor
Input flange





ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

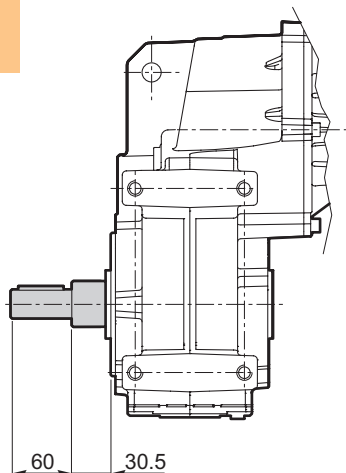
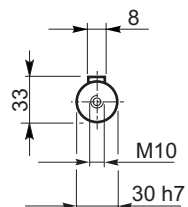
60 Hz

Accesorios

Eje de salida

ATS90... U .. SZ

ATSIS90... U .. SZ

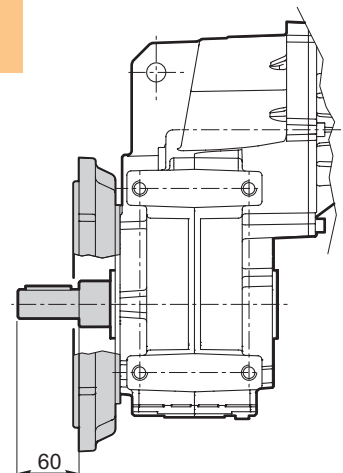
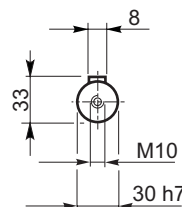


Acessórios

Eixo de saída

ATS90... F .. SZ

ATSIS90... F .. SZ

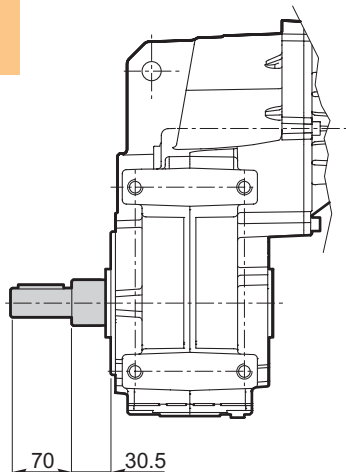
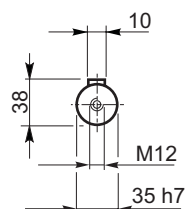


Accessories

Single output shaft

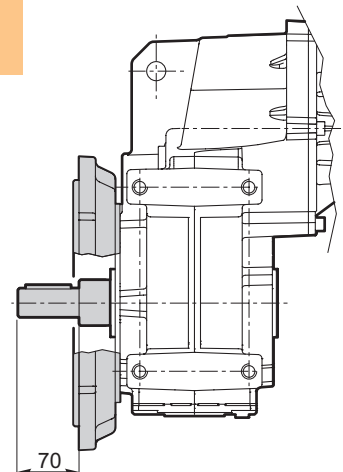
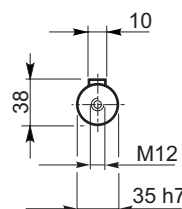
ATS91... U .. SZ

ATSIS91... U .. SZ



ATS91... F .. SZ

ATSIS91... F .. SZ



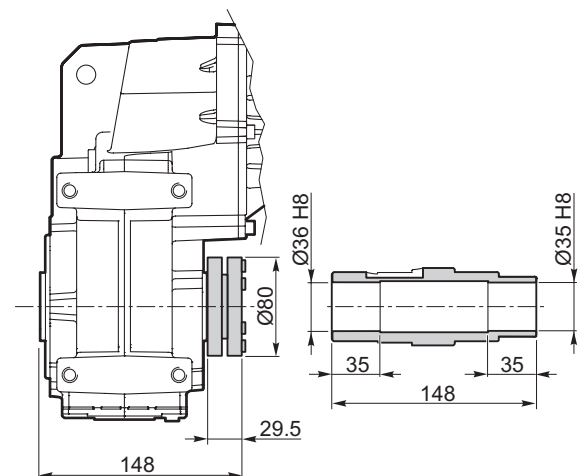
Eje de salida con anillo de contracción

Eixo de saída com disco de contração

Output shaft with shrink disk

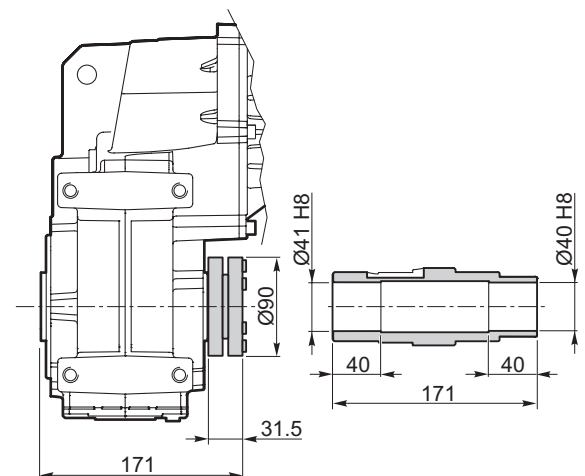
ATS90... U .. G35

ATSIS90... U .. G35



ATS91... U .. G40

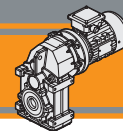
ATSIS91... U .. G40



Kit de eje de salida con anillo de contracción disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

O kit eixo de saída com disco de contração é disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico

Output shaft kit with shrink disk available on request: for assembly instructions please contact our Technical Service

**Accesorios**

Kit de montaje de eje de salida

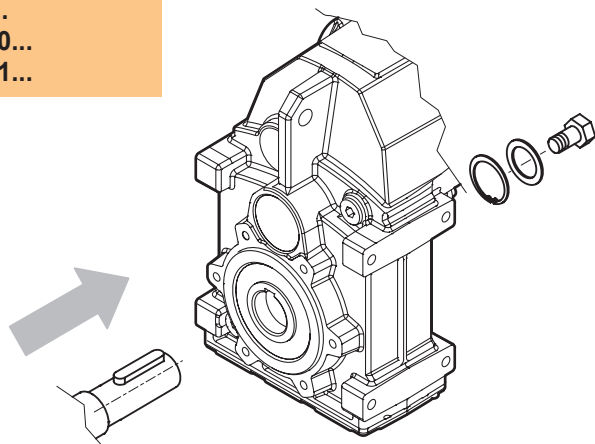
Acessórios

Kit de montagem eixo de saída

Accessories

Output shaft assembly kit

ATS90...
ATS91...
ATSIS90...
ATSIS91...



Kit de montaje del eje de salida disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

kit de montagem do eixo de saída disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico

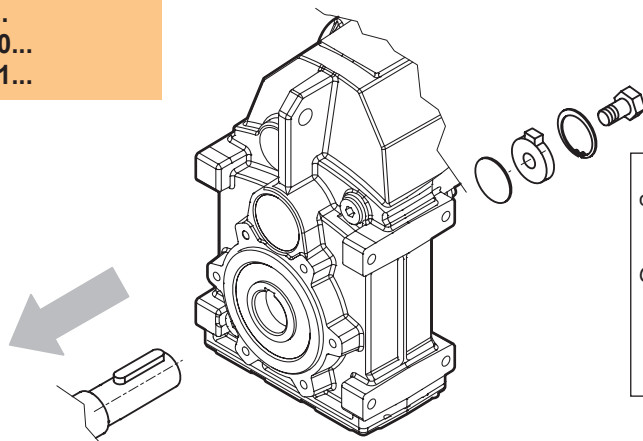
Output shaft assembly kit available upon request:
for assembly instructions please contact our Technical Assistance

Kit de desmontaje del eje de salida

Kit para remoção do eixo de saída

Output shaft disassembly kit

ATS90...
ATS91...
ATSIS90...
ATSIS91...



Kit de desmontaje del eje de salida disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

O kit de remoção do eixo de saída disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico

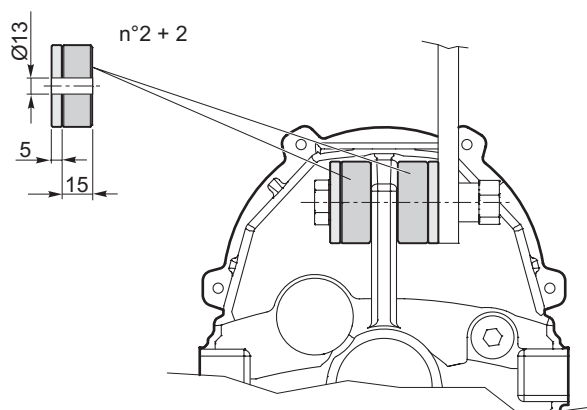
Output shaft disassembly kit available upon request:
for assembly instructions please contact our Technical Assistance

Kit del brazo de reacción

Kit braço de torção

Torque arm kit

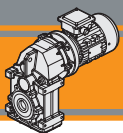
ATS90...U
ATS91...U
ATSIS90...U
ATSIS91...U



Kit del brazo de reacción disponible bajo pedido: para obtener instrucciones de montaje favor de ponerse en contacto con nuestro Servicio Técnico

O kit braço de torção está disponível sob encomenda: para instruções de montagem consultar ao nosso Serviço Técnico

Torque arm kit available upon request:
for assembly instructions please contact our Technical Assistance



ATS

Motorreductores pendulares
Motoredutores de eixos paralelos
Helical parallel gearmotors

60 Hz

Note/Notes

TRANSTECNO®
the modular gearmotor

CM-CMP

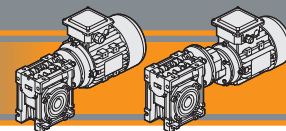


60Hz

IEC

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors



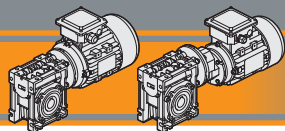


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CM/CMP

Motorreductores sinfín corona Motoredutores de rosca sem fim Wormgearmotors

60 Hz

Características técnicas

El elevado nivel de modularidad caracteriza los motorreductores sinfín corona de la serie CM y CMP; los diversos kit de entrada y salida permiten una versatilidad extrema del motorreductor. Los motorreductores de la serie CM y CMP poseen las características siguientes:

- Los tamaños 026, 030, 040, 050, 063, 075, 090 y 110 están contruidos con carcasa de aluminio. Los tamaños 130 y 150 en hierro fundido;
- Los tamaños 090, 110, 130 y 150 se suministran con rodamientos de rodillos conicos en el sinfín;
- El pre-reductor se fabrica con carcasa de aluminio;

Características técnicas

A elevada modularidade contradistingue os redutores de rosca sem fim da série CM e CMP: os vários kits de entrada e saída os tornam extremamente versáteis. As principais características das séries CM e CMP são:

- Carcaça em alumínio nas grandezas 026, 030, 040, 050, 063, 075, 090 e 110. As grandezas 130 e 150 são construídas com carcaça em ferro fundido;
- Os tamanhos 090, 110, 130 e 150 são fornecidos com rolamentos cônicos
- Os pré estágios são contruidos com carcaça em alumínio

Technical features

The high degree of modularity is a design feature of CM and CMP wormgearmotors range thanks to a wide selection of input and output kits.

Main features of CM and CMP range are:

- Die-cast aluminum housing on sizes 026, 030, 040, 050, 063, 070, 075, 090 and 110. Cast iron housing on size 130 and 150;
- Double taper roller bearing on sizes 090, 110, 130 and 150;
- Die-cast aluminum housing on pre-stage units;

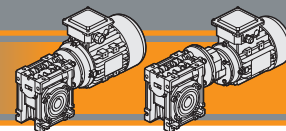
Clasificación

Designação

Classification

REDUCTORES DE SINFIN CORONA REDUTORES DE ROSCA SEM FIM WORMGEARBOXES

REDUCTOR / REDUTOR / GEARBOX										
CM	050	U	10	71	B5	SZDX	BR SX	90	M1	VS
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	IEC 	Forma constructiva Forma construtiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle	Posición de montaje Pos. de montagem Mounting position	Opción Opções Options
CM 	026 026 (D11) 026 (D14) 030 040 050 063 070 075 090 110 130 150	U F...	Véase tablas Veja tabelas see tables	56.. — 132..	B5 B14	SZDX SZSX DZ	BRDX BR SX 	0° 90° 180° 270°	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M6 (B6) M5 (B7)	VS
CMIS 										



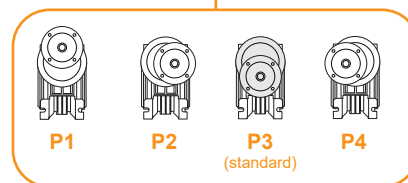
Clasificación

Designação

Classification

PREDUCTORES SINFIN CORONA CON PRE-REDUCTOR
REDUTORES DE ROSCA SEM FIM COM PRÉ-ESTÁGIO
PRE-STAGE WORMGEARBOXES

REDUCTOR / REDUTOR / GEARBOX											
CMP	063/050	U	90	63	B14	SZDX	BRSX	90	P4	M1	VS
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	IEC 	Forma constructiva Forma construtiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle	Posición de montaje Pos. de montagem Mounting position	Opciones Opções Options	Opciones Opções Options
CMP 	056/030	U F...	Véase tablas Veja tabelas see tables	56.. — 80..	B5 B14	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	P1 P2 P3 (standard) P4	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M6 (B6) M5 (B7)	VS
	056/040										
	063/040										
	063/050										
	063/063										
	071/050										
	071/063										
	071/070										
	071/075										
	071/090										
	080/063										
	080/070										
	080/075										
	080/090										
	080/110										
	080/130										
	090/070										
	090/075										
	090/090										
	090/110										
	090/130										

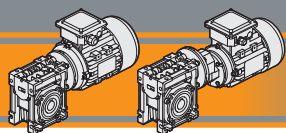


CM/CMP

* NOTA: el brazo de reacción se suministra desmontado.
 * NOTA: o braço de reação é fornecido desmontado.
 NOTE: the torque arm will be supplied not assembled.

Relación de reducción Versão Redutor Gearbox Version	Eje de salida Eixo de saída Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle
 U	 SZDX SZSX DZ	 BRDX BRSX	 0° 90° 180° 270°

MOTOR / MOTOR / MOTOR					
0.75kW	4p	3ph	230/400V	60Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
Véase tablas Veja tabelas see tables	2p 4p 6p 8p	1ph 3ph	230/400V 220/380V ... 230V ...	60Hz	T1 (Std) T4 T2 T3



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

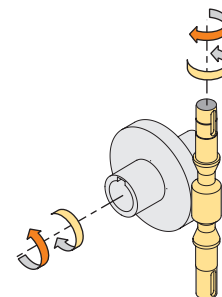
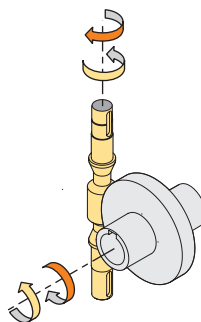
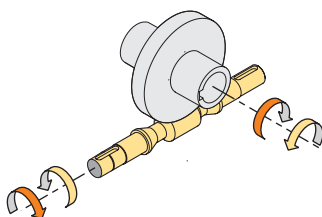
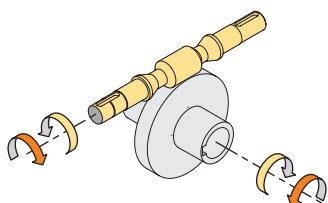
60 Hz

Sentidos de rotación

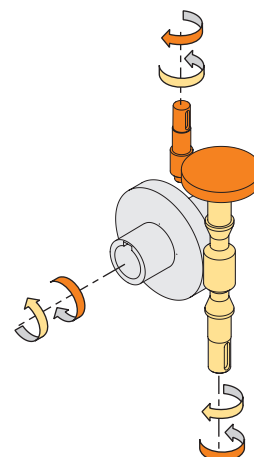
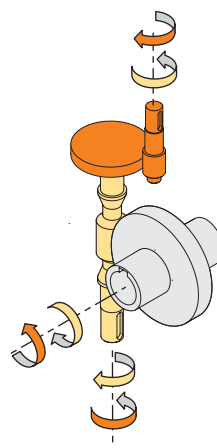
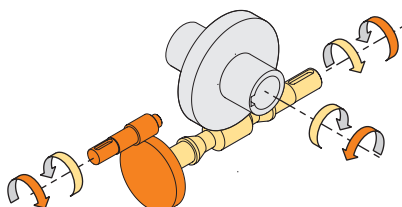
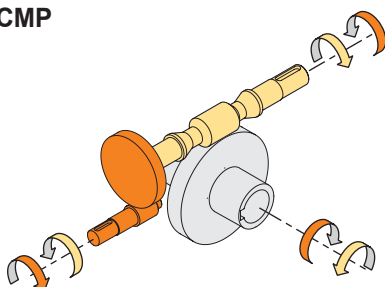
Sentidos de rotação

Direction of rotation

CM



CMP

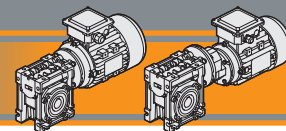


Nomenclatura

Simbologia

Legend

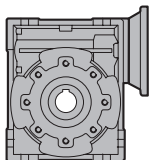
n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
P_{n1}	[kW]	Potencia nominal en la entrada / <i>Potência nominal na entrada</i> / Nominal input power
M_{n2}	[Nm]	Par nominal en la salida en función de P_{n1} / <i>Torque nominal na saída em função de P_{n1}</i> / Nominal output torque referred to P_{n1}
sf		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_d	%	Rendimiento estático / <i>Rendimento estático</i> / Dynamic efficiency
R_s	%	Rendimiento stático / <i>Rendimento statico</i> / Static efficiency
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load
Z		Número de entradas del tornillo / <i>Número de princípios dos parafusos</i> / Worm starts
β		Ángulo de hélic / <i>Ângulo de hélice</i> / Helix angle


Lubricación
Lubrificação
Lubrication

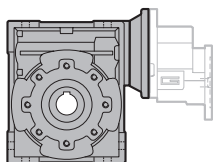
Todos los motorreductores sinfín corona son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

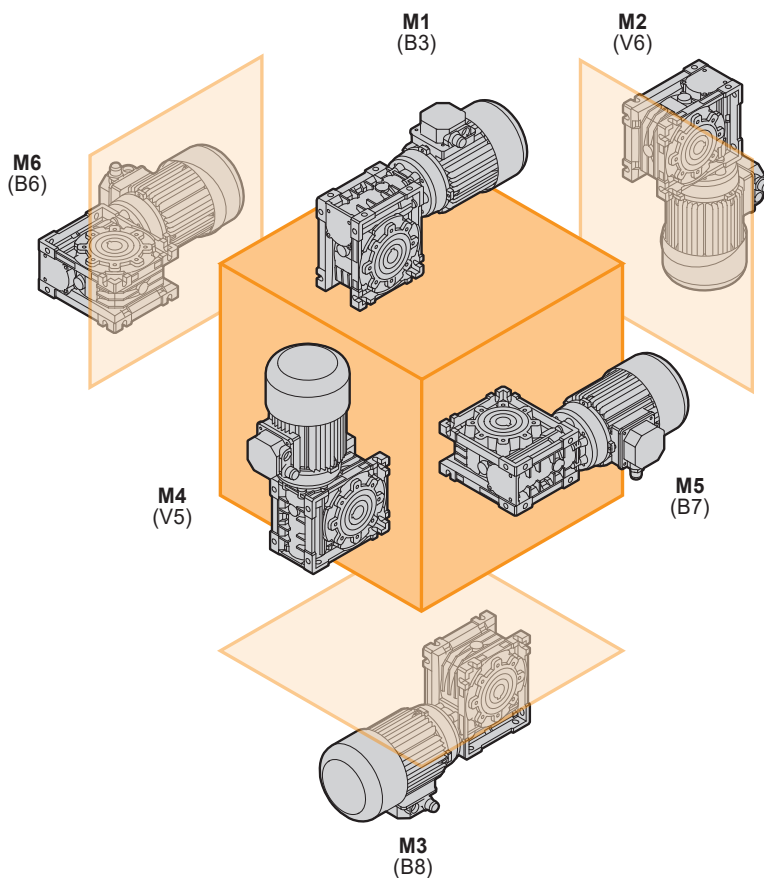
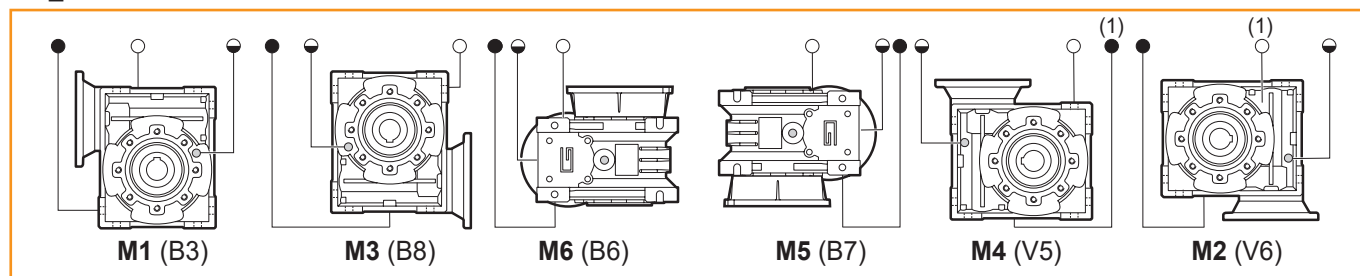
Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.



CM	Cantidad de aceite (litros) / Quantidade de óleo (litros) / Oil quantity (litres)					
	M1 (B3)	M3 (B8)	M6 (B6)	M5 (B7)	M4 (V5)	M2 (V6)
130	4.5	3.3	3.5	3.5	4.5	3.3
150	7	5.1	5.4	5.4	7	5.1



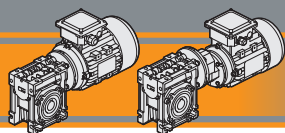
CMP	Cantidad de aceite (litros) / Quantidade de óleo (litros) / Oil quantity (litres)					
	M1 (B3)	M3 (B8)	M6 (B6)	M5 (B7)	M4 (V5)	M2 (V6)
080/130 - 090/130	4.5	3.3	3.5	3.5	4.5	3.3


CM_CMP 130 - 150


(standard)

(1): Tapón en posición trasera
 Válvula na posição posterior
 Plug in backside position

- Tapón de purga y tapón de llenado del aceite
 Válvula de Respiro e tampa de preenchimento / Breather and filling plug
- ◐ Nivel del aceite / Nível de óleo / Oil level plug
- Tapon de drenado del aceite / Oil drain plug



CM/CMP

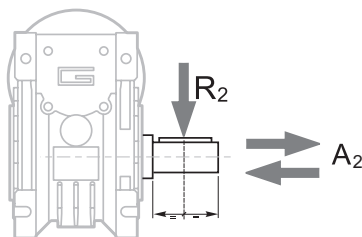
Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

60 Hz

Cargas radiales

Cargas radiais

Radial loads



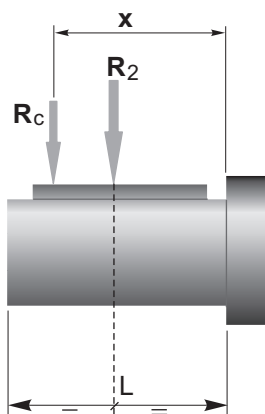
$$A_2 = R_2 \times 0.2$$

n_2 [min ⁻¹]	R_2 [N]										
	CM026	CM030	CM040	CM050	CM063	CM070	CM075	CM090	CM110	CM130	CM150
187	400	674	1264	1770	2445	2613	2824	3161	5058	5732	6962
140	490	743	1392	1949	2692	2878	3110	3481	5570	6313	7663
93	580	851	1596	2234	3085	3298	3564	3990	6384	7235	8771
70	610	936	1754	2456	3392	3626	3918	4386	7018	7953	9654
56	610	1008	1890	2646	3654	3906	4221	4725	7560	8567	10400
47	610	1069	2004	2805	3874	4141	4475	5009	8014	9083	11051
35	610	1179	2210	3095	4273	4568	4937	5526	8842	10021	12163
28	610	1270	2381	3334	4603	4921	5318	5953	9524	10794	13103
23	610	1356	2542	3559	4915	5254	5678	6356	10170	11526	13924
18	610	1471	2759	3862	5334	5702	6162	6897	11036	12507	15182
14	610	1600	3000	4200	5800	6200	6700	7500	12000	13600	16500
CMP... /030 CMP... /040 CMP... /050 CMP... /063 CMP... /070 CMP... /075 CMP... /090 CMP... /110 CMP... /130											

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

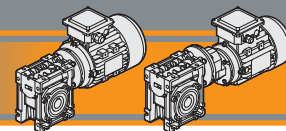


	CM	CM / CMP								
	026	030	040	050	063	075	090	110	130	150
a	56	65	84	101	120	131	182	176	188	215
b	43	50	64	76	95	101	122	136	148	174
R_{2MAX}	610	1600	3000	4200	5800	6700	7500	12000	13600	16500

$$R_c = \frac{R_2 \cdot a}{(b+x)} \leq R_{2MAX}$$

$$R \leq R_c$$

a, b = valores dados en la tabla
a, b = valores referidos na tabela
a, b = values given in the table



Datos de dentado

Dados de dentadura

Toothing data

	Datos del engranaje sinfín corona Dados do binário de parafusos coroa Worm wheel data	Relación de reducción / Relação / Ratio											
		5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	Z	6	4	3	2	2		1	1	1	1		
	β	34° 35'	24° 41'	19° 1'	12° 57'	10° 30'		6° 33'	5° 17'	4° 26'	3° 49'		
CM030	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	27° 4'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM040	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 19'	24° 28'	18° 50'	12° 49'	10° 23'	8° 43'	6° 29'	5° 14'	4° 23'	3° 46'	2° 57'	2° 25'
CM050	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	33° 37'	23° 54'	18° 23'	12° 29'	10° 6'	8° 28'	6° 19'	5° 5'	4° 15'	3° 39'	2° 51'	2° 20'
CM063	Z	6	4	3	2	2	2	1	1	1	1	1	1
	β	34° 23'	24° 31'	18° 53'	12° 50'	10° 24'	8° 44'	6° 30'	5° 14'	4° 23'	3° 47'	2° 57'	2° 25'
CM075	Z		4	3	2	2	2	1	1	1	1	1	1
	β		26° 17'	20° 20'	13° 52'	11° 18'	9° 32'	7° 2'	5° 42'	4° 48'	4° 8'	3° 14'	2° 40'
CM090	Z		4	3	2	2	2	1	1	1	1	1	1
	β		29° 11'	22° 43'	15° 36'	12° 50'	10° 53'	7° 56'	6° 30'	5° 29'	4° 45'	3° 45'	3° 6'
CM110	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 14'	21° 56'	15° 1'	14° 41'	12° 34'	7° 38'	7° 28'	6° 21'	5° 32'	4° 24'	3° 39'
CM130	Z		4	3	2	2	2	1	1	1	1	1	1
	β		28° 43'	22° 20'	15° 19'	13° 47'	11° 54'	7° 48'	7° 00'	6° 01'	5° 16'	4° 08'	3° 27'
CM150	Z		6	4	3	2	2	2	1	1	1	1	1
	β		32° 09'	24° 35'	17° 27'	12° 53'	11° 19'	9° 50'	6° 32'	5° 43'	4° 57'	3° 55'	3° 14'

Rendimiento

Rendimento

Efficiency

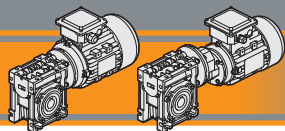
	n ₁ [min ⁻¹]	Rendimiento Rendimento Efficiency	Relación de reducción / Relação / Ratio											
			5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	2800	Rd	89	87	85	83	80		73	68	64	60		
	1400		87	84	83	78	74		66	61	57	53		
	900		84	83	80	75	71		61	57	52	48		
CM030		Rs	72	71	68	61	56	46	41	36	34			
	2800	Rd	89	88	86	84	81	78	74	70	65	62	57	52
	1400		86	85	84	79	75	72	67	62	58	55	48	43
CM040	900		84	83	81	75	71	68	62	58	53	49	43	39
		Rs	72	67	63	55	50	43	39	35	31	27	23	21
CM050	2800	Rd	90	89	87	84	83	80	77	73	69	66	60	56
	1400		88	86	84	81	78	74	70	65	60	58	52	46
	900		86	84	82	77	74	70	66	60	57	53	46	41
CM063		Rs	74	71	67	60	55	51	45	40	36	32	28	24
	2800	Rd	91	90	88	86	84	82	78	74	71	68	62	58
	1400		89	87	85	82	79	76	72	67	63	60	54	49
CM070	900		87	85	84	79	75	72	68	62	59	55	48	43
		Rs	73	70	66	59	55	51	44	39	35	32	27	23
CM075	2800	Rd	91	90	88	86	84	83	79	76	73	70	65	60
	1400		90	88	86	84	81	78	75	70	66	63	57	52
	900		89	86	84	81	78	75	70	65	61	58	52	47
CM090		Rs	73	71	67	60	55	51	45	40	36	33	28	24
	2800	Rd		90	89	87	85	84	80	77	74	72	67	62
	1400			89	87	84	82	80	76	72	68	65	60	53
CM110	900			87	85	82	79	77	72	67	63	60	54	49
		Rs		72	69	62	60	55	48	43	38	36	31	26
CM130	2800	Rd		90	89	87	85	84	81	78	75	72	68	63
	1400			89	87	84	83	80	77	73	69	66	60	56
	900			87	85	83	80	77	73	68	64	61	55	50
CM150		Rs		73	69	62	59	55	48	43	39	36	31	27
	2800	Rd		91	90	88	86	85	83	80	78	75	71	67
	1400			90	88	86	84	83	79	76	72	69	64	60
CM150	900			88	87	84	82	80	76	72	68	65	60	55
		Rs		74	71	65	61	59	51	46	42	39	34	30
CM150	2800	Rd		90	89	88	87	86	82	81	79	77	73	70
	1400			89	88	86	85	84	80	79	76	73	68	64
	900			88	87	84	83	82	78	75	71	68	63	59
CM150		Rs		74	71	64	64	60	50	49	46	42	37	33
	2800	Rd		92	91	90	89	87	86	83	80	78	73	72
	1400			91	90	88	86	84	83	78	76	73	68	64
	900			90	89	87	84	83	81	75	74	71	64	60
CM150		Rs		73	71	66	60	57	54	45	42	39	33	29



Rendimiento teórico del reductor después del rodaje

Rendimento teórico do redutor após a rodagem

Theoretical efficiency of the gearbox after the first running period



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

60 Hz

Datos técnicos

Dados técnicos

Technical data

n_1 1750 [min⁻¹]

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CMIS026

350	13	0.55	5
233	14	0.41	7.5
175	14	0.31	10
117	14	0.22	15
88	14	0.17	20
58	15	0.14	30
44	14	0.11	40
35	13	0.08	50
29	12	0.07	60

CMIS030

350	18	0.77	5
233	20	0.57	7.5
175	21	0.46	10
117	21	0.32	15
88	19	0.23	20
70	20	0.20	25
58	22	0.20	30
44	20	0.15	40
35	19	0.12	50
29	17	0.09	60
22	15	0.07	80
18	14	0.06	100

CMIS040

350	41	1.7	5
233	44	1.3	7.5
175	45	0.98	10
117	45	0.68	15
88	40	0.47	20
70	38	0.38	25
58	48	0.42	30
44	42	0.30	40
35	39	0.24	50
29	36	0.19	60
22	33	0.15	80
18	31	0.12	100

CMIS050

350	75	3.1	5
233	79	2.2	7.5
175	82	1.8	10
117	82	1.2	15
88	72	0.84	20
70	70	0.68	25
58	88	0.75	30
44	76	0.52	40
35	72	0.42	50
29	69	0.35	60
22	60	0.25	80
18	56	0.21	100

CMIS063

350	134	5.5	5
233	144	4.0	7.5
175	148	3.2	10
117	154	2.2	15
88	136	1.5	20
70	135	1.3	25
58	166	1.4	30
44	142	0.93	40
35	136	0.76	50
29	126	0.61	60
22	118	0.47	80
18	116	0.41	100

	n_2 [min ⁻¹]	Mn_2 [Nm]	Pn_1 [kW]	i
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CMIS070

233	200	5.5	7.5
175	218	4.6	10
117	221	3.2	15
88	202	2.3	20
70	180	1.6	25
58	241	1.9	30
44	210	1.3	40
35	190	1.0	50
29	181	0.85	60
22	159	0.61	80
18	154	0.53	100

CMIS075

233	238	6.5	7.5
175	257	5.4	10
117	266	3.9	15
88	242	2.7	20
70	225	2.1	25
58	289	2.3	30
44	251	1.6	40
35	227	1.2	50
29	218	1.0	60
22	193	0.74	80
18	183	0.61	100

CMIS090

233	342	9.3	7.5
175	380	7.8	10
117	433	6.2	15
88	414	4.5	20
70	369	3.3	25
58	493	3.8	30
44	434	2.6	40
35	385	1.9	50
29	352	1.5	60
22	324	1.2	80
18	299	0.91	100

CMIS110

233	605	16.4	7.5
175	669	13.8	10
117	730	10.3	15
88	740	8.0	20
70	670	5.8	25
58	815	6.1	30
44	768	4.5	40
35	699	3.4	50
29	626	2.6	60
22	562	1.9	80
18	523	1.5	100

CMIS130

233	750	20.6	7.5
175	820	17.1	10
117	910	12.9	15
88	910	9.9	20
70	920	8.1	25
58	1050	8.1	30
44	1050	6.3	40
35	970	4.7	50
29	890	3.7	60
22	830	2.8	80
18	735	2.1	100

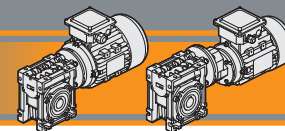
CMIS150

233	1080	29.0	7.5
175	1116	22.7	10
117	1125	15.6	15
88	1170	12.5	20
70	1080	9.4	25
58	1080	7.9	30
44	1395	8.2	40
35	1260	6.1	50
29	1134	4.7	60
22	1035	3.5	80
18	900	2.6	100

Nota: Pn_1 es la potencia mecánica de entrada que será reducida por el factor de calentamiento con el fin de obtener el correspondiente. Para más información, favor de ponerse en contacto con nuestro servicio técnico.

Nota: Pn_1 é a potência mecânica. A potência aplicável é reduzida do fator térmico. Para maiores detalhes, consulte nosso Serviço Técnico.

Note: Pn_1 is an input mechanical power which must be reduced by the heating factor in order to get the relevant one. For more details please contact our Technical Service.

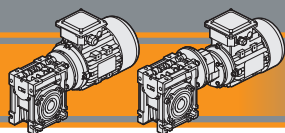


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.09								0.12							
(0.12 hp)	350	2	6.1	5	CM026		B14	(0.16 hp)	35	21	3.5	50	CM050		B5/B14
	233	3	4.5	7.5	CM026		B14		29	24	2.9	60	CM050		B5/B14
56B4	175	4	3.4	10	CM026		B14	63A4	29	27	3.8	60		CMP063/050	B14
(1750 min ⁻¹)	117	6	2.4	15	CM026		B14	(1750 min ⁻¹)	23	32	2.9	75		CMP063/050	B14
	88	7	1.9	20	CM026		B14		22	28	2.1	80	CM050		B5/B14
	58	10	1.5	30	CM026		B14		19	38	3.4	90		CMP063/050	B14
	44	12	1.2	40	CM026		B14		18	32	1.7	100	CM050		B5/B14
	35	14	0.9	50	CM026		B14		15	45	2.4	120		CMP063/050	B14
	29	16	0.8	60	CM026		B14		12	53	2.0	150		CMP063/050	B14
									10	59	1.6	180		CMP063/050	B14
									7.3	68	1.3	240		CMP063/050	B14
	88	7	2.6	20	CM030		B5/B14		22	30	4.0	80	CM063		B5
	70	9	2.3	25	CM030		B5/B14		19	37	6.4	90		CMP063/063	B14
	58	10	2.2	30	CM030		B5/B14		18	34	3.4	100	CM063		B5
	44	12	1.6	40	CM030		B5/B14		15	46	4.5	120		CMP063/063	B14
	35	14	1.3	50	CM030		B5/B14		12	55	3.5	150		CMP063/063	B14
	29	16	1.0	60	CM030		B5/B14		10	61	2.9	180		CMP063/063	B14
	29	19	1.3	60		CMP056/030	B14		7.3	72	2.1	240		CMP063/063	B14
	23	23	1.2	75		CMP056/030	B14		5.8	81	1.7	300		CMP063/063	B14
	22	19	0.8	80	CM030		B5/B14								
	19	26	1.3	90		CMP056/030	B14								
	18	21	0.7	100	CM030		B5/B14								
	15	31	1.0	120		CMP056/030	B14								
	44	13	3.3	40	CM040		B5/B14								
	35	15	2.6	50	CM040		B5/B14								
	29	17	2.1	60	CM040		B5/B14								
	29	20	2.9	60		CMP056/040	B14								
	23	24	2.1	75		CMP056/040	B14								
	22	20	1.6	80	CM040		B5/B14								
	19	27	2.6	90		CMP056/040	B14								
	18	23	1.4	100	CM040		B5/B14								
	15	33	1.9	120		CMP056/040	B14								
	12	38	1.5	150		CMP056/040	B14								
	10	42	1.3	180		CMP056/040	B14								
	7.3	50	0.9	240		CMP056/040	B14								
0.12								0.18							
(0.16 hp)	350	3	6.4	5	CM030		B5/B14	(0.25 hp)	350	4	4.3	5	CM030		B5/B14
	233	4	4.8	7.5	CM030		B5/B14		233	6	3.2	7.5	CM030		B5/B14
63A4	175	6	3.8	10	CM030		B5/B14	63B4	175	8	2.5	10	CM030		B5/B14
(1750 min ⁻¹)	117	8	2.7	15	CM030		B5/B14	(1750 min ⁻¹)	117	12	1.8	15	CM030		B5/B14
	88	10	1.9	20	CM030		B5/B14		88	15	1.3	20	CM030		B5/B14
	70	12	1.7	25	CM030		B5/B14		70	18	1.1	25	CM030		B5/B14
	58	13	1.7	30	CM030		B5/B14		58	20	1.1	30	CM030		B5/B14
	44	16	1.2	40	CM030		B5/B14		44	24	0.8	40	CM030		B5/B14
	35	19	1.0	50	CM030		B5/B14						CM030		B5/B14
									117	12	3.8	15	CM040		B5/B14
	88	10	3.9	20	CM040		B5/B14		88	15	2.6	20	CM040		B5/B14
	70	12	3.1	25	CM040		B5/B14		70	18	2.1	25	CM040		B5/B14
	58	14	3.5	30	CM040		B5/B14		58	21	2.3	30	CM040		B5/B14
	44	17	2.5	40	CM040		B5/B14		44	26	1.6	40	CM040		B5/B14
	35	20	2.0	50	CM040		B5/B14		35	29	1.3	50	CM040		B5/B14
	29	23	1.6	60	CM040		B5/B14		29	34	1.1	60	CM040		B5/B14
	29	27	2.2	60		CMP063/040	B14		29	40	1.4	60		CMP063/040	B14
	23	32	1.6	75		CMP063/040	B14		23	48	1.1	75		CMP063/040	B14
	22	27	1.2	80	CM040		B5/B14		19	55	1.3	90		CMP063/040	B14
	19	36	2.0	90		CMP063/040	B14		15	67	0.9	120		CMP063/040	B14
	18	30	1.0	100	CM040		B5/B14								
	15	45	1.4	120		CMP063/040	B14		44	26	2.9	40	CM050		B5/B14
									35	31	2.3	50	CM050		B5/B14
									29	35	2.0	60	CM050		B5/B14
									29	41	2.5	60		CMP063/050	B14
									23	48	1.9	75		CMP063/050	B14
									22	42	1.4	80	CM050		B5/B14
									19	56	2.2	90		CMP063/050	B14
									18	48	1.2	100	CM050		B5/B14
									15	68	1.6	120		CMP063/050	B14
									12	79	1.3	150		CMP063/050	B14
									10	88	1.1	180		CMP063/050	B14



CM/CMP

Motorreductores sinfín corona
 Motores de rosca sem fim
 Wormgearmotors

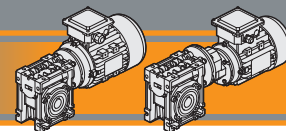
60 Hz

Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.18								0.37							
(0.25 hp)	29	37	3.4	60	CM063		B5	(0.50 hp)	350	9	4.6	5	CM040		B5/B14
	29	42	4.5	60		CMP063/063	B14		233	13	3.4	7.5	CM040		B5/B14
63B4	23	51	3.4	75		CMP063/063	B14	71A4	175	17	2.7	10	CM040		B5/B14
(1750 min ⁻¹)	22	45	2.6	80	CM063		B5	(1750 min ⁻¹)	117	25	1.8	15	CM040		B5/B14
	19	55	4.2	90		CMP063/063	B14		88	31	1.3	20	CM040		B5/B14
	18	51	2.3	100	CM063		B5		70	37	1.0	25	CM040		B5/B14
	15	69	3.0	120		CMP063/063	B14		58	42	1.1	30	CM040		B5/B14
	12	82	2.3	150		CMP063/063	B14		44	52	0.8	40	CM040		B5/B14
	10	92	1.9	180		CMP063/063	B14								
	7	109	1.4	240		CMP063/063	B14		117	25	3.3	15	CM050		B5/B14
	6	121	1.2	300		CMP063/063	B14		88	32	2.3	20	CM050		B5/B14
									70	38	1.8	25	CM050		B5/B14
									58	44	2.0	30	CM050		B5/B14
									44	54	1.4	40	CM050		B5/B14
									35	64	1.1	50	CM050		B5/B14
									29	73	0.9	60	CM050		B5/B14
									29	84	1.2	60		CMP071/050	B14
									23	99	0.9	75		CMP071/050	B14
									19	116	1.1	90		CMP071/050	B14
	175	11	3.9	10	CM040		B5/B14		70	39	3.4	25	CM063		B5/B14
	117	17	2.7	15	CM040		B5/B14		58	45	3.7	30	CM063		B5/B14
	88	21	1.9	20	CM040		B5/B14		44	57	2.5	40	CM063		B5/B14
	70	25	1.5	25	CM040		B5/B14		35	67	2.0	50	CM063		B5/B14
	58	29	1.7	30	CM040		B5/B14		29	76	1.7	60	CM063		B5/B14
	44	35	1.2	40	CM040		B5/B14		29	87	2.2	60		CMP071/063	B14
	35	41	1.0	50	CM040		B5/B14		23	104	1.7	75		CMP071/063	B14
	29	56	1.0	60		CMP063/040	B14		22	92	1.3	80	CM063		B5/B14
	23	66	0.8	75		CMP063/040	B14		19	114	2.1	90		CMP071/063	B14
	19	76	0.9	90		CMP063/040	B14		18	105	1.1	100	CM063		B5/B14
									15	142	1.4	120		CMP071/063	B14
	88	22	3.3	20	CM050		B5/B14		12	169	1.1	150		CMP071/063	B14
	70	26	2.7	25	CM050		B5/B14		10	189	0.9	180		CMP071/063	B14
	58	29	3.0	30	CM050		B5/B14								
	44	37	2.1	40	CM050		B5/B14		35	69	2.8	50	CM070		B5
	35	43	1.7	50	CM050		B5/B14		29	79	2.3	60	CM070		B5
	29	49	1.4	60	CM050		B5/B14		29	88	3.2	60		CMP071/070	B14
	29	57	1.8	60		CMP063/050	B14		23	105	2.4	75		CMP071/070	B14
	23	67	1.4	75		CMP063/050	B14		22	97	1.6	80	CM070		B5
	22	59	1.0	80	CM050		B5/B14		19	118	2.9	90		CMP071/070	B14
	19	78	1.6	90		CMP063/050	B14		18	107	1.4	100	CM070		B5
	15	95	1.2	120		CMP063/050	B14		15	145	2.1	120		CMP071/070	B14
	12	110	0.9	150		CMP063/050	B14		12	169	1.6	150		CMP071/070	B14
									10	189	1.4	180		CMP071/070	B14
	44	38	3.7	40	CM063		B5		7	223	1.0	240		CMP071/070	B14
	35	45	3.0	50	CM063		B5								
	29	52	2.4	60	CM063		B5		22	97	2.0	80	CM075		B5
	29	59	3.2	60		CMP063/063	B14		19	119	3.4	90		CMP071/075	B14
	23	70	2.5	75		CMP063/063	B14		18	111	1.6	100	CM075		B5
	22	62	1.9	80	CM063		B5		15	147	2.5	120		CMP071/075	B14
	19	77	3.1	90		CMP063/063	B14		12	172	1.9	150		CMP071/075	B14
	18	71	1.6	100	CM063		B5		10	192	1.6	180		CMP071/075	B14
	15	96	2.1	120		CMP063/063	B14		7	228	1.2	240		CMP071/075	B14
	12	114	1.7	150		CMP063/063	B14		6	255	0.9	300		CMP071/075	B14
	10	128	1.4	180		CMP063/063	B14								
	7	151	1.0	240		CMP063/063	B14								



Datos técnicos

Dados técnicos

Technical data

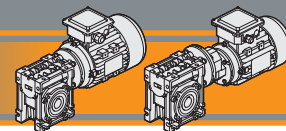
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
0.37								0.55							
(0.50 hp)	22	103	3.1	80	CM090		B5	(0.75 hp)	23	165	3.1	75		CMP071/090	B14
	19	125	5.5	90		CMP071/090	B14		22	154	2.1	80	CM090		B5
71A4	18	121	2.5	100	CM090		B5	71B4	19	185	3.7	90		CMP071/090	B14
(1750 min ⁻¹)	15	154	4.0	120		CMP071/090	B14	(1750 min ⁻¹)	18	180	1.7	100	CM090		B5
	12	181	3.1	150		CMP071/090	B14		15	229	2.7	120		CMP071/090	B14
	10	210	2.4	180		CMP071/090	B14		12	269	2.1	150		CMP071/090	B14
	7	247	1.8	240		CMP071/090	B14		10	312	1.6	180		CMP071/090	B14
	6	279	1.5	300		CMP071/090	B14		7	367	1.2	240		CMP071/090	B14
									6	415	1.0	300		CMP071/090	B14
0.55								0.75							
(0.75 hp)	350	13	3.1	5	CM040		B5/B14	(1.0 hp)	350	18	4.1	5	CM050		B5/B14
	233	19	2.3	7.5	CM040		B5/B14		233	27	3.0	7.5	CM050		B5/B14
71B4	175	25	1.8	10	CM040		B5/B14	80A4	175	35	2.4	10	CM050		B5/B14
(1750 min ⁻¹)	117	36	1.2	15	CM040		B5/B14	(1750 min ⁻¹)	117	50	1.6	15	CM050		B5/B14
	88	47	0.9	20	CM040		B5/B14		88	65	1.1	20	CM050		B5/B14
									70	78	0.9	25	CM050		B5/B14
	350	13	5.6	5	CM050		B5/B14		58	88	1.0	30	CM050		B5/B14
	233	20	4.0	7.5	CM050		B5/B14								
	175	26	3.2	10	CM050		B5/B14		117	52	3.0	15	CM063		B5/B14
	117	37	2.2	15	CM050		B5/B14		88	66	2.1	20	CM063		B5/B14
	88	47	1.5	20	CM050		B5/B14		70	80	1.7	25	CM063		B5/B14
	70	57	1.2	25	CM050		B5/B14		58	92	1.8	30	CM063		B5/B14
	58	65	1.4	30	CM050		B5/B14		44	115	1.2	40	CM063		B5/B14
	44	80	0.9	40	CM050		B5/B14		35	135	1.0	50	CM063		B5/B14
									29	155	0.8	60	CM063		B5/B14
	117	38	4.1	15	CM063		B5/B14		29	176	1.1	60		CMP080/063	B14
	88	49	2.8	20	CM063		B5/B14		19	231	1.0	90		CMP080/063	B14
	70	59	2.3	25	CM063		B5/B14								
	58	68	2.5	30	CM063		B5/B14		88	67	3.0	20	CM070		B5/B14
	44	84	1.7	40	CM063		B5/B14		70	82	2.2	25	CM070		B5/B14
	35	99	1.4	50	CM063		B5/B14		58	93	2.6	30	CM070		B5/B14
	29	113	1.1	60	CM063		B5/B14		44	118	1.8	40	CM070		B5/B14
	29	129	1.5	60		CMP071/063	B14		35	139	1.4	50	CM070		B5/B14
	23	154	1.1	75		CMP071/063	B14		29	160	1.1	60	CM070		B5/B14
	22	137	0.9	80	CM063		B5/B14		29	178	1.6	60		CMP080/070	B14
	19	169	1.4	90		CMP071/063	B14		23	214	1.2	75		CMP080/070	B14
	15	212	1.0	120		CMP071/063	B14		19	238	1.4	90		CMP080/070	B14
									15	294	1.0	120		CMP080/070	B14
	35	102	1.9	50	CM070		B5								
	29	117	1.5	60	CM070		B5		44	118	2.1	40	CM075		B5/B14
	29	131	2.2	60		CMP071/070	B14		35	141	1.6	50	CM075		B5/B14
	23	157	1.6	75		CMP071/070	B14		29	160	1.4	60	CM075		B5/B14
	22	144	1.1	80	CM070		B5		29	180	1.9	60		CMP080/075	B14
	19	175	2.0	90		CMP071/070	B14		23	217	1.4	75		CMP080/075	B14
	18	159	1.0	100	CM070		B5		22	196	1.0	80	CM075		B5/B14
	15	215	1.4	120		CMP071/070	B14		19	242	1.7	90		CMP080/075	B14
	12	251	1.1	150		CMP071/070	B14		15	298	1.2	120		CMP080/075	B14
	10	281	0.9	180		CMP071/070	B14		12	349	0.9	150		CMP080/075	B14
	29	132	2.5	60		CMP071/075	B14		35	149	2.6	50	CM090		B5/B14
	23	159	1.9	75		CMP071/075	B14		29	172	2.0	60	CM090		B5/B14
	22	144	1.3	80	CM075		B5		29	188	3.1	60		CMP080/090	B14
	19	177	2.3	90		CMP071/075	B14		23	226	2.3	75		CMP080/090	B14
	18	165	1.1	100	CM075		B5		22	210	1.5	80	CM090		B5/B14
	15	219	1.7	120		CMP071/075	B14		19	253	2.7	90		CMP080/090	B14
	12	256	1.3	150		CMP071/075	B14		18	246	1.2	100	CM090		B5/B14
	10	286	1.1	180		CMP071/075	B14		15	313	2.0	120		CMP080/090	B14
									12	367	1.5	150		CMP080/090	B14
									10	426	1.2	180		CMP080/090	B14



60 Hz

Technical data

G12

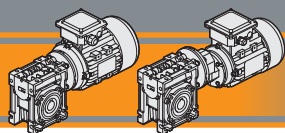


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
1.5								2.2							
(2.0 hp)	88	138	3.0	20	CM090		B5/B14	(3.0 hp)	117	155	2.8	15	CM090		B5/B14
	70	170	2.2	25	CM090		B5/B14		88	202	2.1	20	CM090		B5/B14
90S4	58	196	2.5	30	CM090		B5/B14	90L4	70	249	1.5	25	CM090		B5/B14
(1750 min ⁻¹)	44	249	1.7	40	CM090		B5/B14	(1750 min ⁻¹)	58	288	1.7	30	CM090		B5/B14
	35	299	1.3	50	CM090		B5/B14		44	365	1.2	40	CM090		B5/B14
	29	344	1.0	60	CM090		B5/B14		35	438	0.9	50	CM090		B5/B14
	29	375	1.5	60		CMP090/090	B5/B14		29	551	1.0	60		CMP090/090	B5/B14
	23	451	1.1	75		CMP090/090	B5/B14								
	19	505	1.4	90		CMP090/090	B5/B14		88	204	3.6	20	CM110		B5/B14
	15	626	1.0	120		CMP090/090	B5/B14		70	252	2.7	25	CM110		B5/B14
									58	292	2.8	30	CM110		B5/B14
	44	259	3.0	40	CM110		B5/B14		44	379	2.0	40	CM110		B5/B14
	35	311	2.2	50	CM110		B5/B14		35	456	1.5	50	CM110		B5/B14
	29	359	1.7	60	CM110		B5/B14		29	526	1.2	60	CM110		B5/B14
	29	385	2.5	60		CMP090/110	B5/B14		29	565	1.7	60		CMP090/110	B5/B14
	23	469	1.9	75		CMP090/110	B5/B14		23	688	1.3	75		CMP090/110	B5/B14
	22	445	1.3	80	CM110		B5/B14		22	653	0.9	80	CM110		B5/B14
	19	520	2.2	90		CMP090/110	B5/B14		19	762	1.5	90		CMP090/110	B5/B14
	18	524	1.0	100	CM110		B5/B14		15	974	1.1	120		CMP090/110	B5/B14
	15	664	1.6	120		CMP090/110	B5/B14		12	1147	0.9	150		CMP090/110	B5/B14
	12	782	1.3	150		CMP090/110	B5/B14								
	10	895	1.0	180		CMP090/110	B5/B14		44	365	2.9	40	CM130		B5
									35	450	2.2	50	CM130		B5
	35	307	3.2	50	CM130		B5		29	526	1.7	60	CM130		B5
	29	359	2.5	60	CM130		B5		29	558	2.2	60		CMP090/130	B5/B14
	29	380	3.3	60		CMP090/130	B5/B14		23	679	1.8	75		CMP090/130	B5/B14
	23	463	2.6	75		CMP090/130	B5/B14		22	663	1.3	80	CM130		B5
	22	452	1.8	80	CM130		B5		19	762	1.8	90		CMP090/130	B5/B14
	19	520	2.7	90		CMP090/130	B5/B14		18	768	1.0	100	CM130		B5
	18	524	1.4	100	CM130		B5		15	960	1.3	120		CMP090/130	B5/B14
	15	655	1.9	120		CMP090/130	B5/B14		12	1182	1.0	150		CMP090/130	B5/B14
	12	806	1.5	150		CMP090/130	B5/B14								
	10	924	1.2	180		CMP090/130	B5/B14								
	7	1117	0.9	240		CMP090/130	B5/B14								
2.2								3.0							
(3.0 hp)	350	54	2.5	5	CM063		B5/B14	(4.0 hp)	233	109	1.8	7.5	CM070		B5/B14
	233	79	1.8	7.5	CM063		B5/B14		175	142	1.5	10	CM070		B5/B14
90L4	175	103	1.4	10	CM063		B5/B14	100LA4	117	206	1.1	15	CM070		B5/B14
(1750 min ⁻¹)	117	151	1.0	15	CM063		B5/B14	(1750 min ⁻¹)							
									233	109	2.2	7.5	CM075		B5/B14
	233	80	2.5	7.5	CM070		B5/B14		175	142	1.8	10	CM075		B5/B14
	175	104	2.1	10	CM070		B5/B14		117	206	1.3	15	CM075		B5/B14
	117	151	1.5	15	CM070		B5/B14		88	272	0.9	20	CM075		B5/B14
	88	197	1.0	20	CM070		B5/B14								
	58	274	0.9	30	CM070		B5/B14		233	111	3.1	7.5	CM090		B5/B14
									175	146	2.6	10	CM090		B5/B14
	233	80	3.0	7.5	CM075		B5/B14		117	211	2.1	15	CM090		B5/B14
	175	104	2.5	10	CM075		B5/B14		88	275	1.5	20	CM090		B5/B14
	117	151	1.8	15	CM075		B5/B14		70	340	1.1	25	CM090		B5/B14
	88	199	1.2	20	CM075		B5/B14		58	393	1.3	30	CM090		B5/B14
	70	240	0.9	25	CM075		B5/B14		44	498	0.9	40	CM090		B5/B14
	58	277	1.0	30	CM075		B5/B14								
									117	214	3.4	15	CM110		B5/B14
									88	278	2.7	20	CM110		B5/B14
									70	344	1.9	25	CM110		B5/B14



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

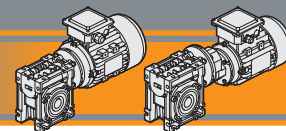
60 Hz

Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
3.0								4.5							
(4.0 hp)	58	398	2.0	30	CM110		B5/B14	(6.0 hp)	233	164	1.2	7.5	CM070		B5/B14
	44	517	1.5	40	CM110		B5/B14		175	214	1.0	10	CM070		B5/B14
100LA4	35	622	1.1	50	CM110		B5/B14	112MA4							
(1750 min ⁻¹)	29	717	0.9	60	CM110		B5/B14	(1750 min ⁻¹)	233	164	1.5	7.5	CM075		B5/B14
									175	214	1.2	10	CM075		B5/B14
	70	340	2.7	25	CM130		B5		117	309	0.9	15	CM075		B5/B14
	58	388	2.7	30	CM130		B5								
	44	498	2.1	40	CM130		B5		233	166	2.1	7.5	CM090		B5/B14
	35	614	1.6	50	CM130		B5		175	219	1.7	10	CM090		B5/B14
	29	717	1.2	60	CM130		B5		117	317	1.4	15	CM090		B5/B14
	22	904	0.9	80	CM130		B5		88	413	1.0	20	CM090		B5/B14
	44	511	2.7	40	CM150		B5		233	166	3.6	7.5	CM110		B5/B14
	35	622	2.0	50	CM150		B5		175	219	3.1	10	CM110		B5/B14
	29	717	1.6	60	CM150		B5		117	320	2.3	15	CM110		B5/B14
	22	891	1.2	80	CM150		B5		88	417	1.8	20	CM110		B5/B14
	18	1048	0.9	100	CM150		B5		70	516	1.3	25	CM110		B5/B14
									58	597	1.4	30	CM110		B5/B14
									44	776	1.0	40	CM110		B5/B14
3.7								5.5							
(5.0 hp)	233	135	1.5	7.5	CM070		B5/B14		233	164	4.6	7.5	CM130		B5
	175	176	1.2	10	CM070		B5/B14		175	216	3.8	10	CM130		B5
100LB4									117	317	2.9	15	CM130		B5
(1750 min ⁻¹)	233	135	1.8	7.5	CM075		B5/B14		88	413	2.2	20	CM130		B5
	175	176	1.5	10	CM075		B5/B14		70	510	1.8	25	CM130		B5
	117	254	1.0	15	CM075		B5/B14		58	582	1.8	30	CM130		B5
									44	747	1.4	40	CM130		B5
	233	136	2.5	7.5	CM090		B5/B14		35	921	1.1	50	CM130		B5
	175	180	2.1	10	CM090		B5/B14								
	117	260	1.7	15	CM090		B5/B14		88	422	2.8	20	CM150		B5
	88	339	1.2	20	CM090		B5/B14		70	516	2.1	25	CM150		B5
	70	419	0.9	25	CM090		B5/B14		58	611	1.8	30	CM150		B5
	58	485	1.0	30	CM090		B5/B14		44	766	1.8	40	CM150		B5
									35	933	1.4	50	CM150		B5
	233	136	4.4	7.5	CM110		B5/B14		29	1076	1.1	60	CM150		B5
	175	180	3.7	10	CM110		B5/B14								
	117	263	2.8	15	CM110		B5/B14								
	88	343	2.2	20	CM110		B5/B14								
	70	424	1.6	25	CM110		B5/B14								
	58	491	1.7	30	CM110		B5/B14								
	44	638	1.2	40	CM110		B5/B14								
	35	767	0.9	50	CM110		B5/B14								
	88	339	2.7	20	CM130		B5		233	203	1.7	7.5	CM090		B5/B14
	70	419	2.2	25	CM130		B5		175	267	1.4	10	CM090		B5/B14
	58	479	2.2	30	CM130		B5		117	387	1.1	15	CM090		B5/B14
	44	614	1.7	40	CM130		B5								
	35	757	1.3	50	CM130		B5		233	203	3.0	7.5	CM110		B5/B14
	29	884	1.0	60	CM130		B5		175	267	2.5	10	CM110		B5/B14
									117	392	1.9	15	CM110		B5/B14
	70	424	2.5	25	CM150		B5		88	510	1.5	20	CM110		B5/B14
	58	503	2.1	30	CM150		B5		70	630	1.1	25	CM110		B5/B14
	44	630	2.2	40	CM150		B5		58	729	1.1	30	CM110		B5/B14
	35	767	1.6	50	CM150		B5								
	29	884	1.3	60	CM150		B5								
	22	1098	0.9	80	CM150		B5								

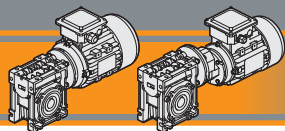


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i				P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			
5.5								11							
(7.5 hp)	233	200	3.7	7.5	CM130		B5	(15.0 hp)	233	405	1.5	7.5	CM110		B5/B14
	175	264	3.1	10	CM130		B5		175	534	1.3	10	CM110		B5/B14
112MB4	117	387	2.4	15	CM130		B5	132L4	117	783	0.9	15	CM110		B5/B14
(1750 min ⁻¹)	88	504	1.8	20	CM130		B5	(1750 min ⁻¹)							
	70	623	1.5	25	CM130		B5		233	401	1.9	7.5	CM130		B5/B14
	58	711	1.5	30	CM130		B5		175	528	1.6	10	CM130		B5/B14
	44	912	1.2	40	CM130		B5		117	774	1.2	15	CM130		B5/B14
	35	1126	0.9	50	CM130		B5		88	1008	0.9	20	CM130		B5/B14
	117	396	2.8	15	CM150		B5		233	410	2.6	7.5	CM150		B5
	88	516	2.3	20	CM150		B5		175	540	2.1	10	CM150		B5
	70	630	1.7	25	CM150		B5		117	792	1.4	15	CM150		B5
	58	747	1.4	30	CM150		B5		88	1032	1.1	20	CM150		B5
	44	936	1.5	40	CM150		B5		70	1261	0.9	25	CM150		B5
	35	1141	1.1	50	CM150		B5								
	29	1315	0.9	60	CM150		B5								
7.5								15							
(10.0 hp)	233	276	2.2	7.5	CM110		B5/B14	(20.0 hp)	233	559	1.9	7.5	CM150		B5
	175	364	1.8	10	CM110		B5/B14		175	737	1.5	10	CM150		B5
132MA4	117	534	1.4	15	CM110		B5/B14	160M4	117	1081	1.0	15	CM150		B5
(1750 min ⁻¹)	88	696	1.1	20	CM110		B5/B14	(1750 min ⁻¹)	88	1408	0.8	20	CM150		B5
	233	273	2.7	7.5	CM130		B5/B14								
	175	360	2.3	10	CM130		B5/B14								
	117	528	1.7	15	CM130		B5/B14								
	88	688	1.3	20	CM130		B5/B14								
	70	849	1.1	25	CM130		B5/B14								
	58	970	1.1	30	CM130		B5/B14								
	233	279	3.9	7.5	CM150		B5								
	175	368	3.0	10	CM150		B5								
	117	540	2.1	15	CM150		B5								
	88	704	1.7	20	CM150		B5								
	70	860	1.3	25	CM150		B5								
	58	1019	1.1	30	CM150		B5								
	44	1277	1.1	40	CM150		B5								
9.2								18.5							
(12.5 hp)	233	339	1.8	7.5	CM110		B5/B14	(25.0 hp)	233	689	1.6	7.5	CM150		B5
	175	447	1.5	10	CM110		B5/B14		175	909	1.2	10	CM150		B5
132MB4	117	655	1.1	15	CM110		B5/B14	160L4	117	1333	0.8	15	CM150		B5
(1750 min ⁻¹)	88	853	0.9	20	CM110		B5/B14	(1750 min ⁻¹)							
	233	335	2.2	7.5	CM130		B5/B14								
	175	442	1.9	10	CM130		B5/B14								
	117	648	1.4	15	CM130		B5/B14								
	88	843	1.1	20	CM130		B5/B14								
	70	1042	0.9	25	CM130		B5/B14								
	58	1190	0.9	30	CM130		B5/B14								
	233	343	3.2	7.5	CM150		B5								
	175	452	2.5	10	CM150		B5								
	117	663	1.7	15	CM150		B5								
	88	864	1.4	20	CM150		B5								
	70	1054	1.0	25	CM150		B5								
	58	1250	0.9	30	CM150		B5								
	44	1566	0.9	40	CM150		B5								



CM/CMP

Motorreductores sinfín corona
 Motores de rosca sem fim
 Wormgearmotors

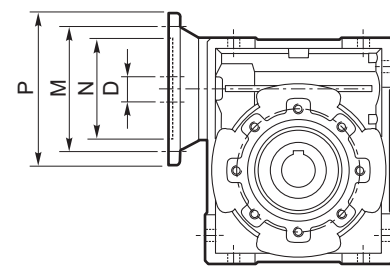
60 Hz

Motores aplicables

Motores aplicáveis

IEC Motor adapters

	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
CM026	56B14	50	65	80	9												
CM030	63B5	95	115	140	11												
	63B14	60	75	90	11												
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	B			
	56B14	50	65	80	9	B	B	B	B	B	B	B	B	B			
CM040	71B5	110	130	160	14												
	71B14	70	85	105	14												
	63B5	95	115	140	11	B	B	B	B	B	B	B	B				
	63B14	60	75	90	11	B	B	B	B	B	B	B	B				
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	BS	B	B	B	B
	56B14	50	65	80	9	BS	BS	BS	BS	BS	BS	BS	BS	B	B	B	B
CM050	80B5	130	165	200	19												
	80B14	80	100	120	19												
	71B5	110	130	160	14	B	B	B	B	B	B	B					
	71B14	70	85	105	14	B	B	B	B	B	B	B					
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	B	B	B	B	
	63B14	60	75	90	11	BS	BS	BS	BS	BS	BS	BS	B	B	B	B	
CM063	90B5	130	165	200	24												
	90B14	95	115	140	24												
	80B5	130	165	200	19	B	B	B	B	B	B	B					
	80B14	80	100	120	19	B	B	B	B	B	B	B					
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	BS	B	B	B		
	71B14	70	85	105	14	BS	BS	BS	BS	BS	BS	BS	B	B	B		
CM070	100/112B5	180	215	250	28												
	100/112B14	110	130	160	28												
	90B5	130	165	200	24		B	B	B	B							
	90B14	95	115	140	24		B	B	B	B							
	80B5	130	165	200	19		BS	BS	BS	BS	B	B	B				
	80B14	80	100	120	19		BS	BS	BS	BS	B	B	B				
CM075	100/112B5	180	215	250	28												
	100/112B14	110	130	160	28												
	90B5	130	165	200	24		B	B	B	B	B						
	90B14	95	115	140	24		B	B	B	B	B						
	80B5	130	165	200	19		BS	BS	BS	BS	BS	BS	B	B			
	80B14	80	100	120	19		BS	BS	BS	BS	BS	BS	B	B			
CM075	71B5	110	130	160	14								BS	BS	B	B	B
	71B14	70	85	105	14								BS	BS	B	B	B



N.B. Las áreas grises indican los tamaño de los motores aplicables.

N.B. As áreas cinzas indicam o tamanho dos motores aplicados.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

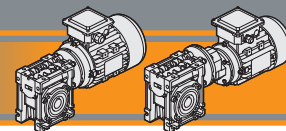
B/BS = Bucha de redução em aço

B/BS = Metal shaft sleeve

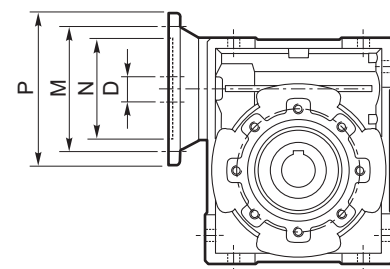
Note: Brida Nema disponible según la demanda

Nota: flange Nema disponível sob encomenda

Note: Nema flange available on demand


Motores aplicables
Motores aplicáveis
IEC Motor adapters

	IEC	N	M	P	D	i											
						5	7.5	10	15	20	25	30	40	50	60	80	100
CM090	100/112B5	180	215	250	28												
	100/112B14	110	130	160													
	90B5	130	165	200	24		B	B	B	B	B	B					
	90B14	95	115	140													
	80B5	130	165	200	19		BS	BS	BS	BS	BS	BS	BS	B	B	B	
	80B14	80	100	120													
	71B5	110	130	160	14									BS	BS	BS	B
CM110	132B5	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		B	B	B	B	B	B					
	100/112B14	110	130	160													
	90B5	130	165	200	24		BS	BS	BS	BS	BS	BS	B	B	B		
	90B14	95	115	140													
	80B5	130	165	200	19								BS	BS	BS	B	B
CM130	132B5	230	265	300	38												
	132B14	130	165	200													
	100/112B5	180	215	250	28		B	B	B	B	B	B					
	90B5	130	165	200	24		BS	BS	BS	BS	BS	BS	BS	B	B	B	B
	80B5	130	165	200	19									BS	BS	BS	BS
CM150	160B5	250	300	350	42												
	132B5	230	265	300	38		B	B	B	B	B						
	100/112B5	180	215	250	28		BS	BS	BS	BS	BS	B	B	B	B		



N.B. Las áreas grises indican los tamaños de los motores aplicables.

N.B. As áreas cinzas indicam o tamanho dos motores aplicados.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

B/BS = Bucha de redução em aço

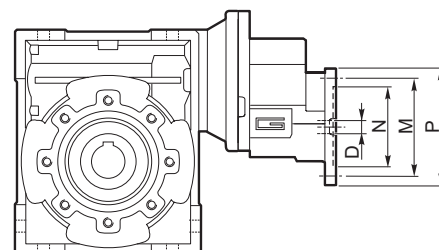
B/BS = Metal shaft sleeve

Note: Brida Nema disponible según la demanda

Nota: flange Nema disponível sob encomenda

Note: Nema flange available on demand

CMP	IEC	N	M	P	D	i (i ₁ x i ₂)							
						60 (3x20)	75 (3x25)	90 (3x30)	120 (3x40)	150 (3x50)	180 (3x60)	240 (3x80)	300 (3x100)
056/030	56 B14	50	65	80	9								
056/040						B	B	B	B				
063/040	63 B14	60	75	90	11								
063/050						B	B	B					
063/063						BS	BS	BS	B	B	B		
071/050	71 B14	70	85	105	14								
071/063						B	B	B					
071/070						B	B	B	B				
071/075						B	B	B	B				
071/090						BS	BS	BS	B	B	B		
080/063	80 B14	80	100	120	19								
080/070													
080/075													
080/090						B	B	B					
080/110						BS	BS	B	B	B	B		
080/130						BS	BS	BS	BS	B	B	B	B
090/070	90 B14 90 B5	95 130	115 165	140 200	24								
090/075													
090/090						B	B	B					
090/110						BS	BS	B	B	B	B		
090/130						BS	BS	BS	BS	B	B	B	B



N.B. Las áreas grises indican los tamaños de los motores aplicables

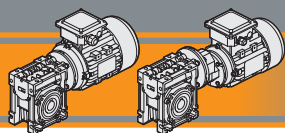
N.B. As áreas cinzas indicam o tamanho dos motores aplicados

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

B/BS = Bucha de redução em aço

B/BS = Metal shaft sleeve



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

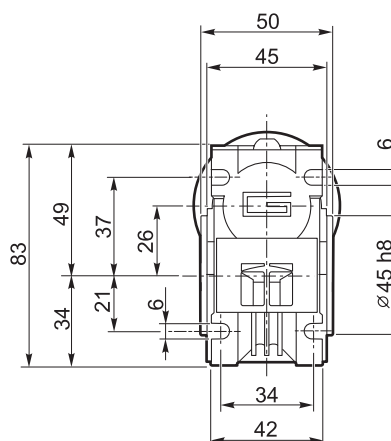
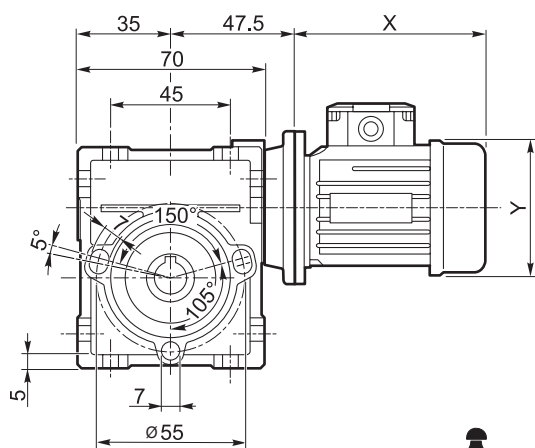
60 Hz

Dimensiones

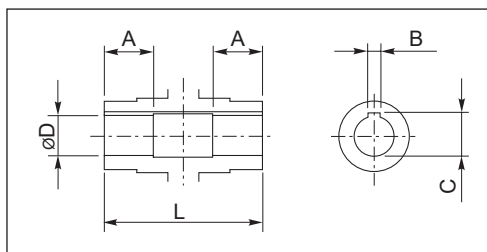
Dimensões

Dimensions

CM 026 U



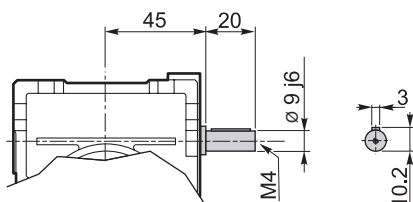
Kg
0.8

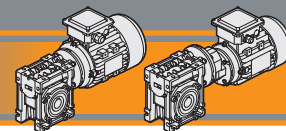


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

Grandezza Size	ø D H8	L	A	B	C
CM 026 (D14)	14	50	15	5	16.2
CM 026	12	50	15	4	13.8
CM 026 (D11)	11	50	15	4	12.8

CMIS 026 ..



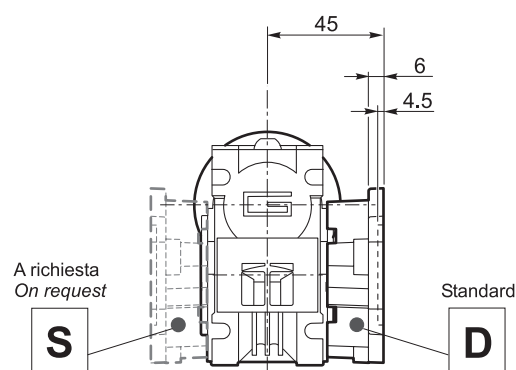
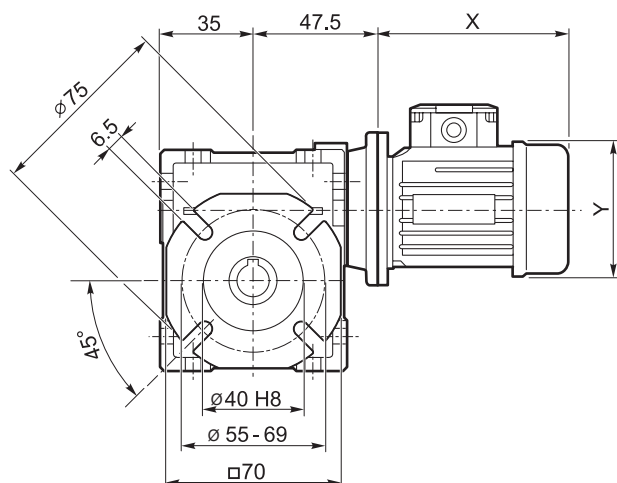


Dimensiones

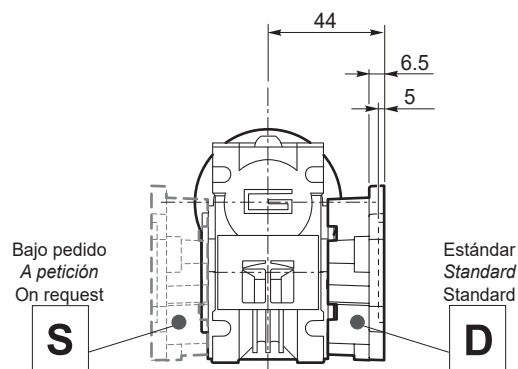
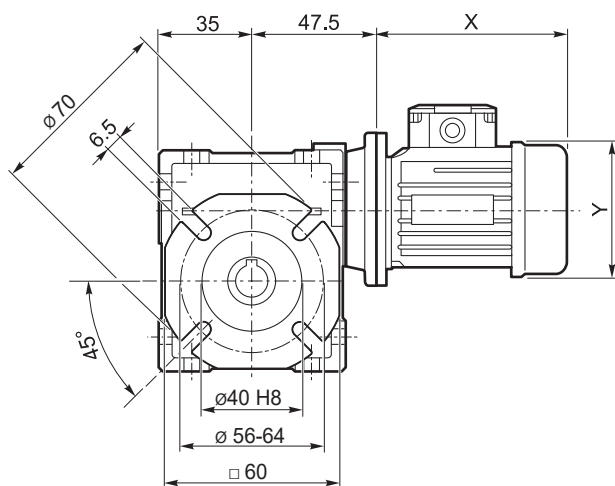
Dimensões

Dimensions

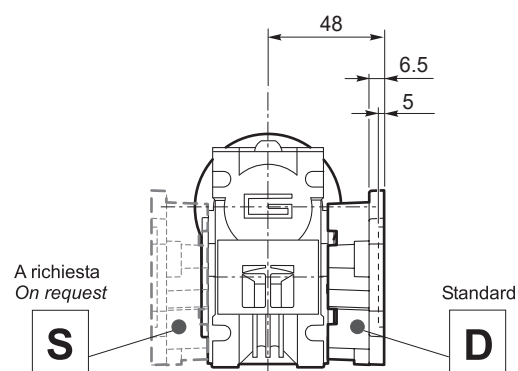
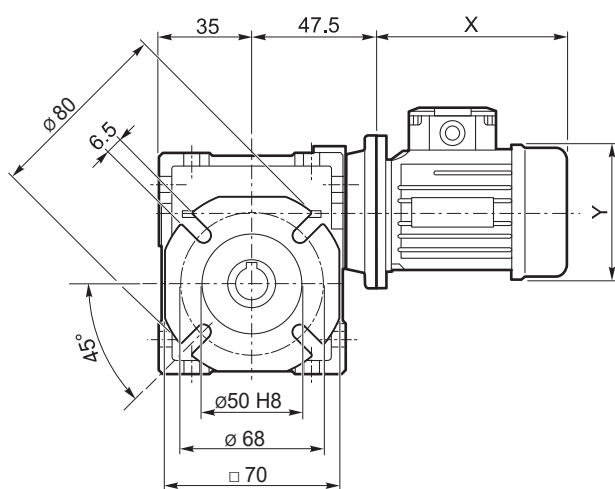
CM 026 F

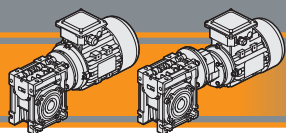


CM 026 F28



CM 026 F30





CM/CMP

Motorreductores sinfín corona
 Motores de rosca sem fim
 Wormgearmotors

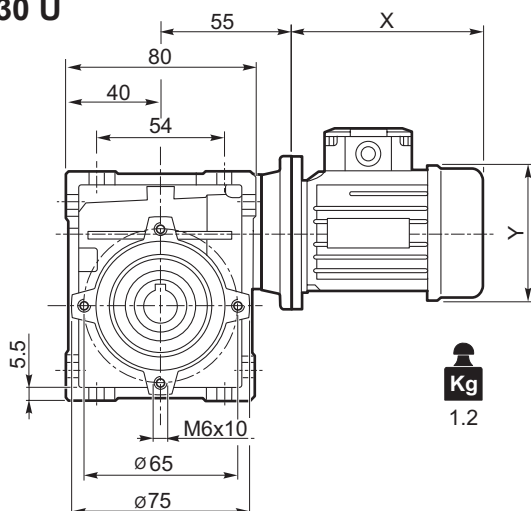
60 Hz

Dimensiones

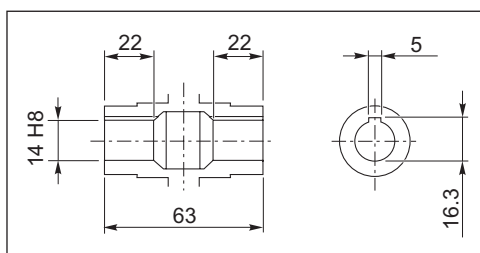
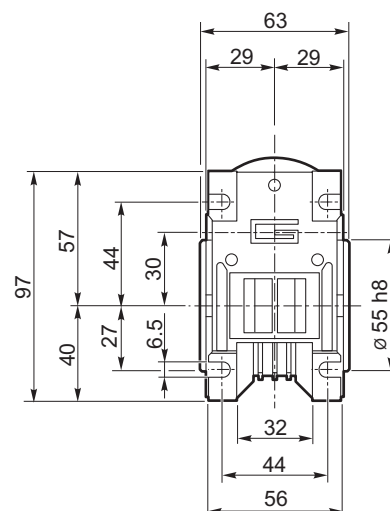
Dimensões

Dimensions

CM 030 U

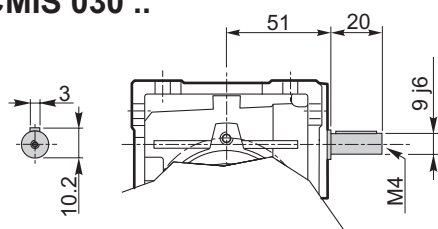


1.2

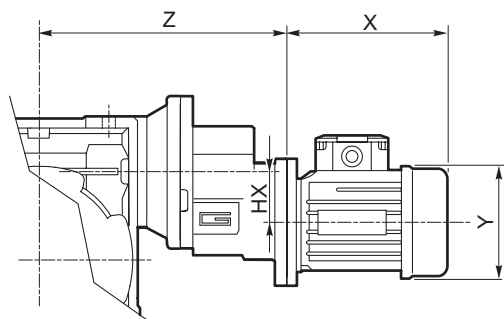


Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft

CMIS 030 ..



CMP ..

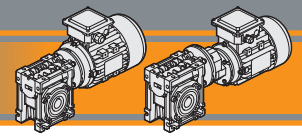


	HX	Z	Kg
056/030	30.5	124	2.1

60 Hz

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

CM/CMP



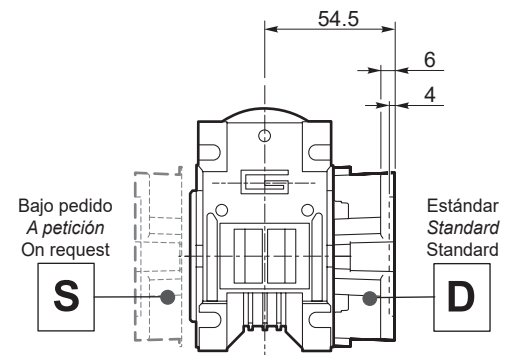
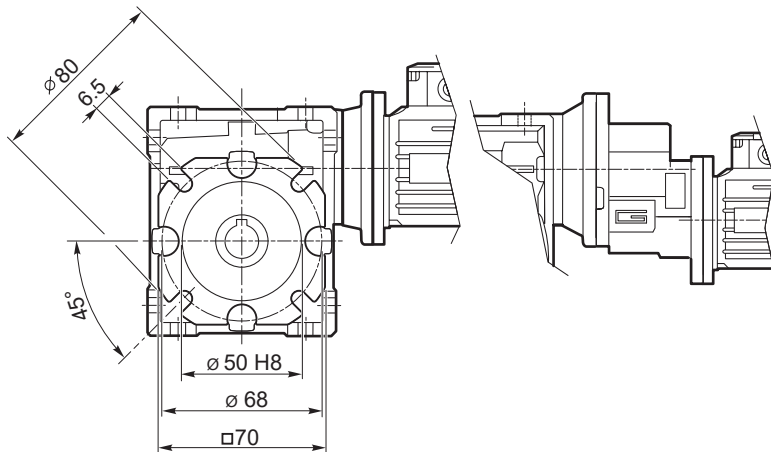
Dimensiones

Dimensões

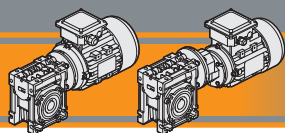
Dimensions

CM 030 F

CMP../030 F



CM/CMP



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

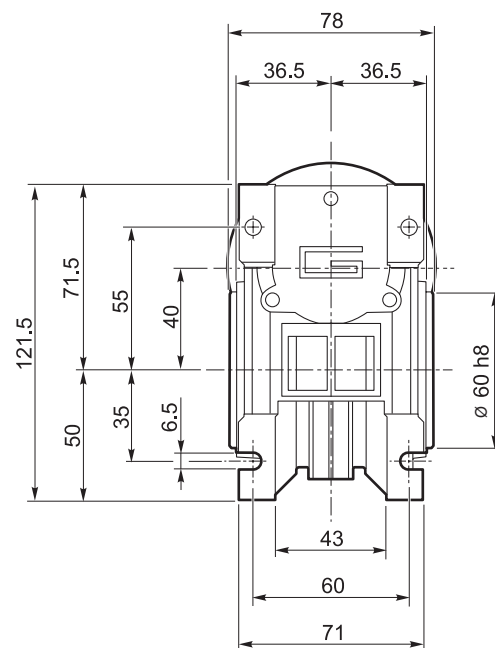
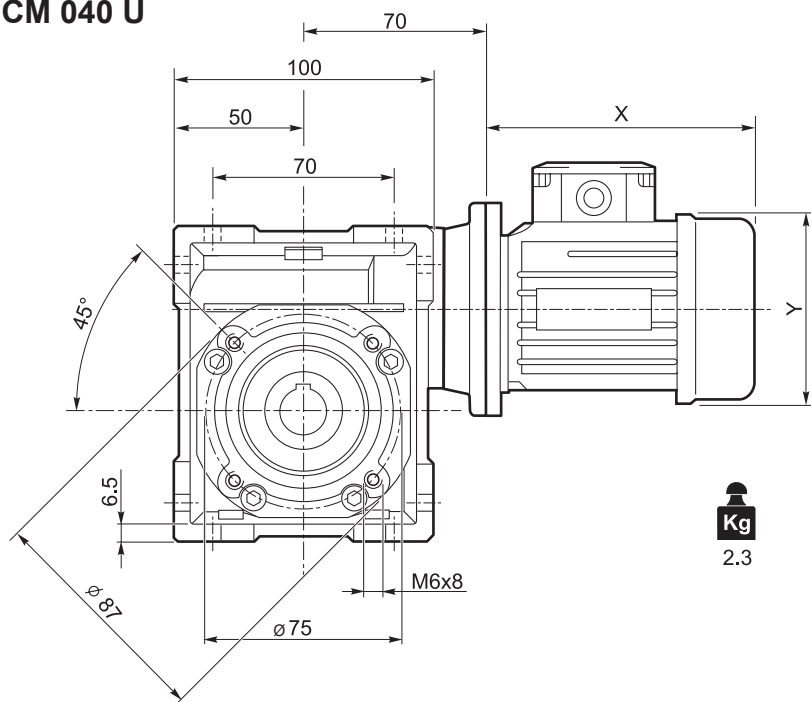
60 Hz

Dimensiones

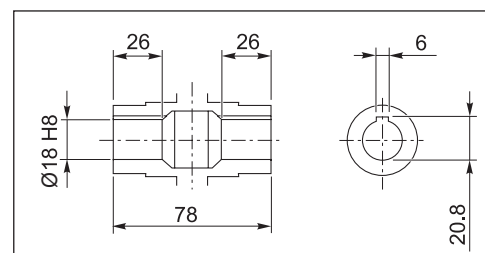
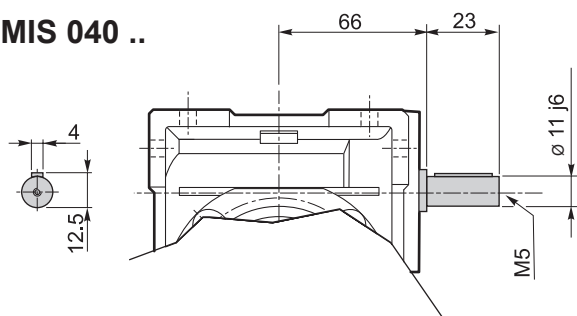
Dimensões

Dimensions

CM 040 U

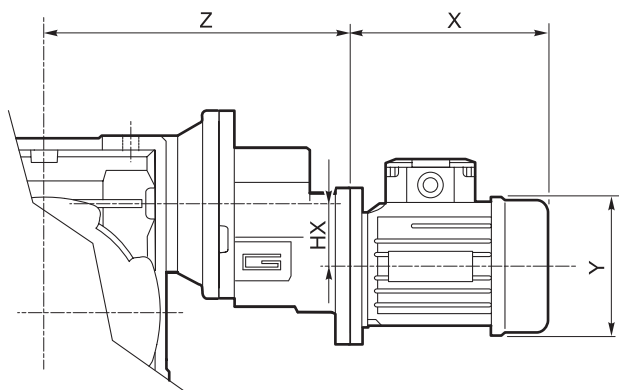


CMIS 040 ..

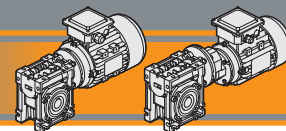


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMP ..



	HX	Z	Kg
056/040	30.5	139	3.2
063/040	30.5	142	3.3



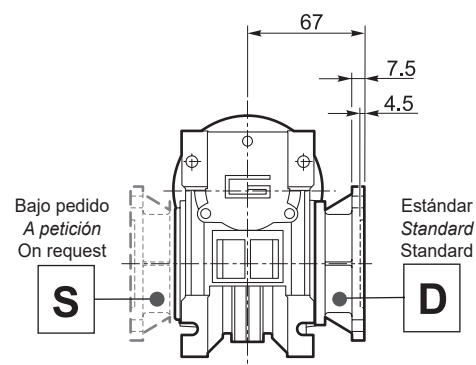
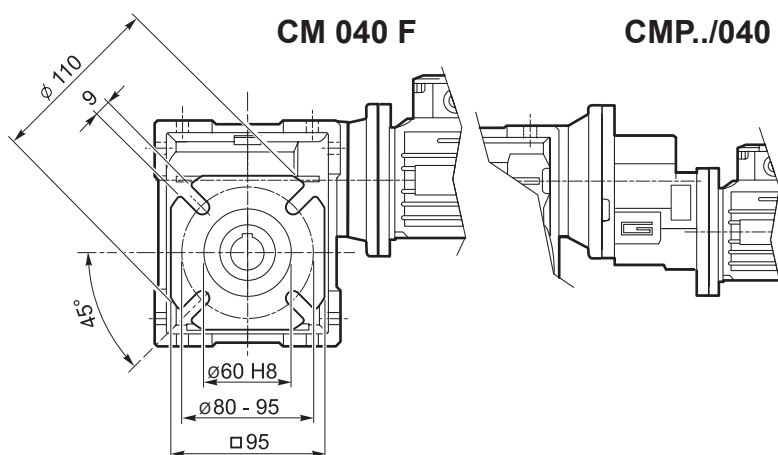
Dimensiones

Dimensões

Dimensions

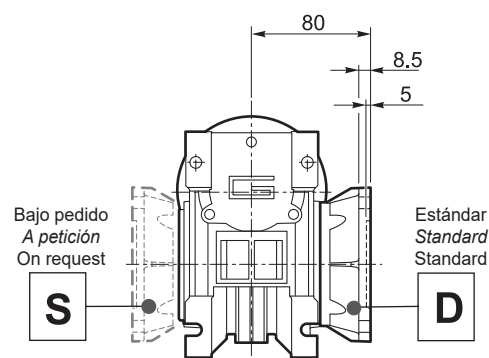
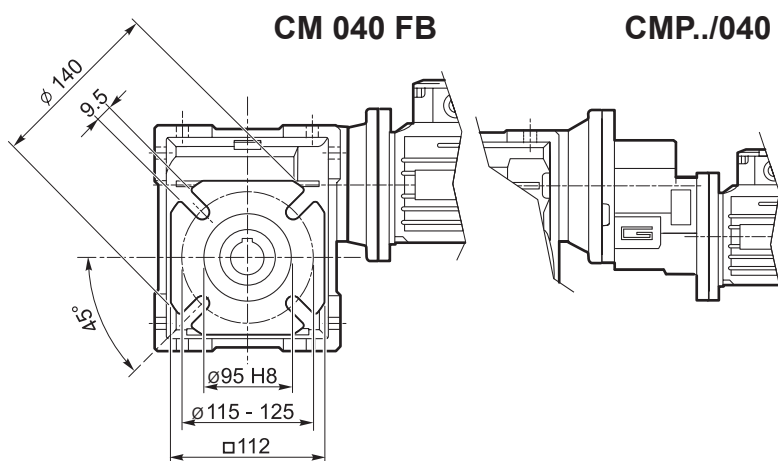
CM 040 F

CMP../040 F



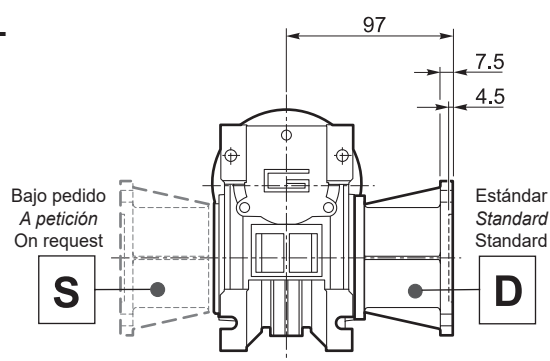
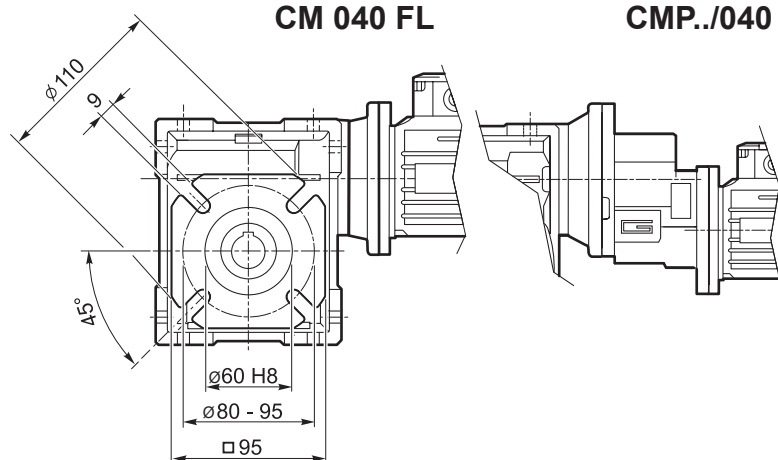
CM 040 FB

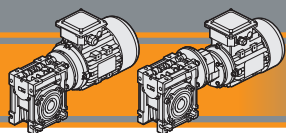
CMP../040 FB



CM 040 FL

CMP../040 FL





CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

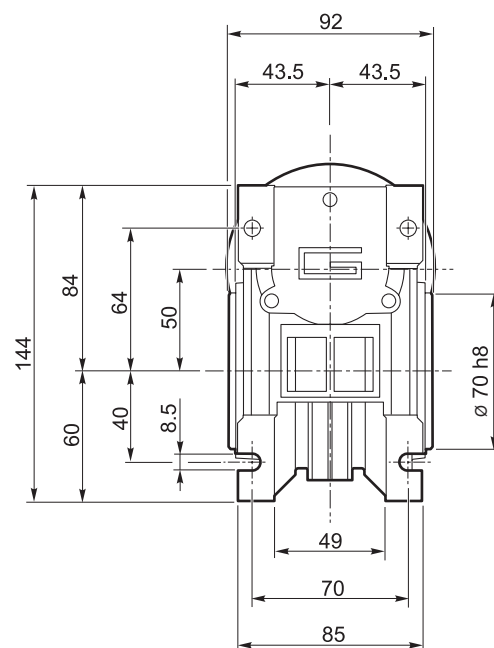
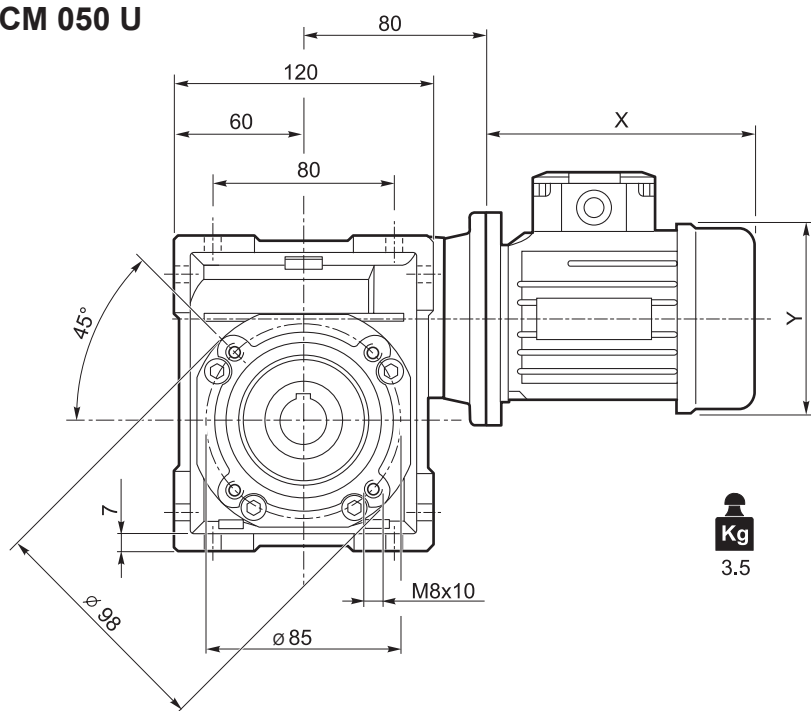
60 Hz

Dimensiones

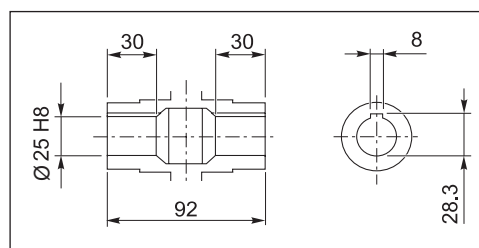
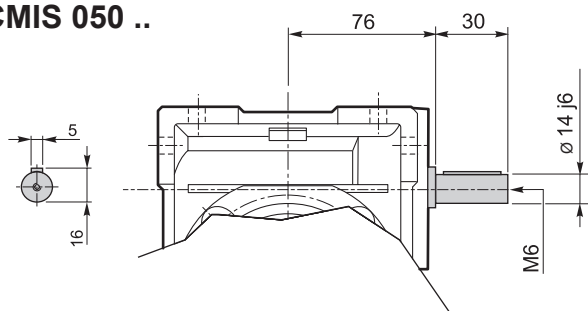
Dimensões

Dimensions

CM 050 U

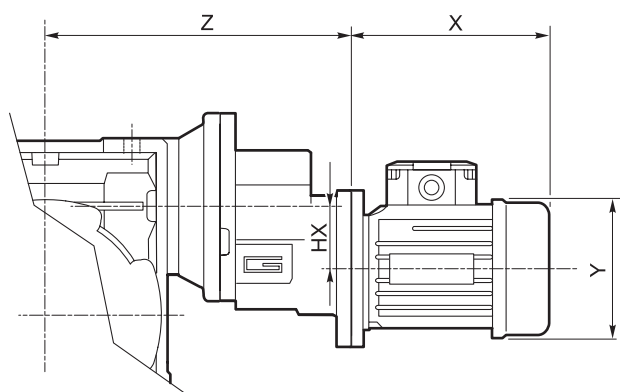


CMIS 050 ..

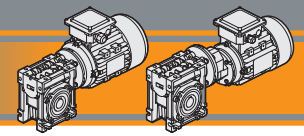


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMP ..



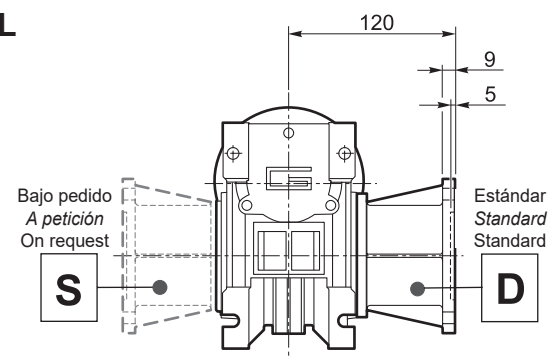
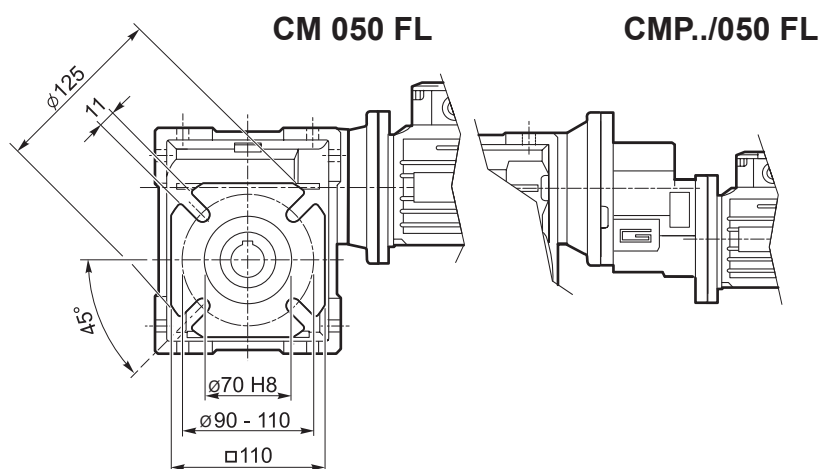
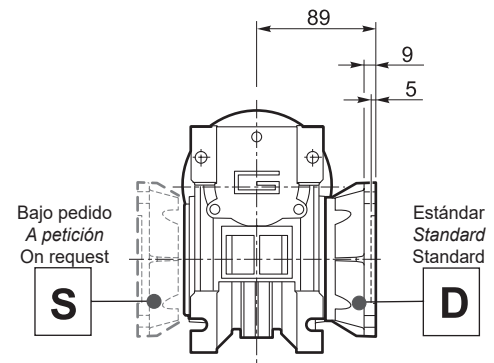
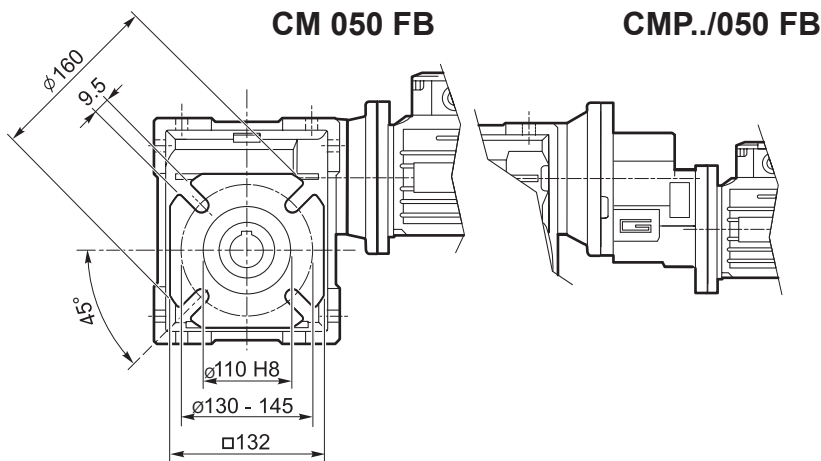
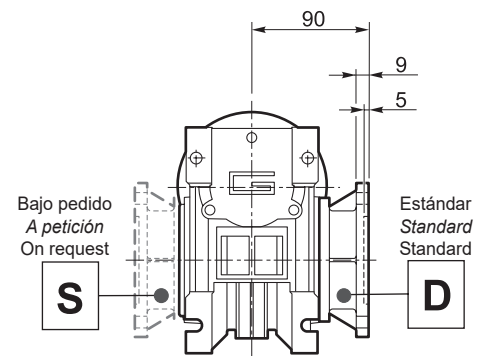
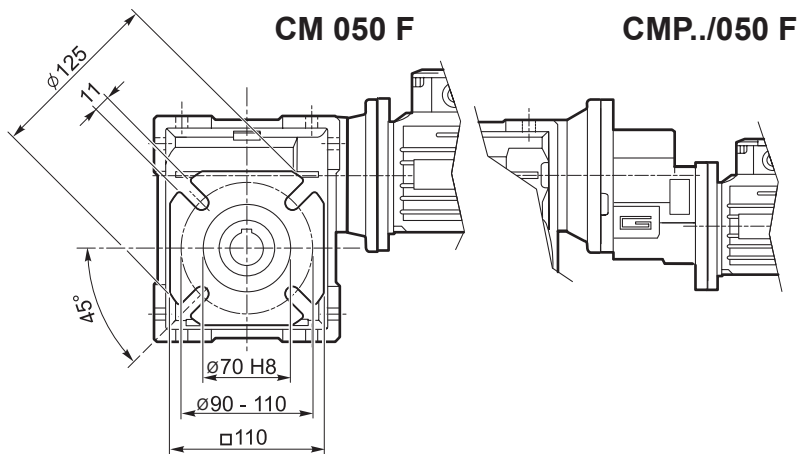
	HX	Z	Kg
063/050	30.5	152	4.5
071/050	41	169	5.5

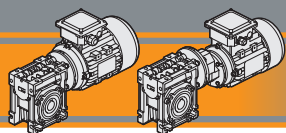


Dimensiones

Dimensões

Dimensions





CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

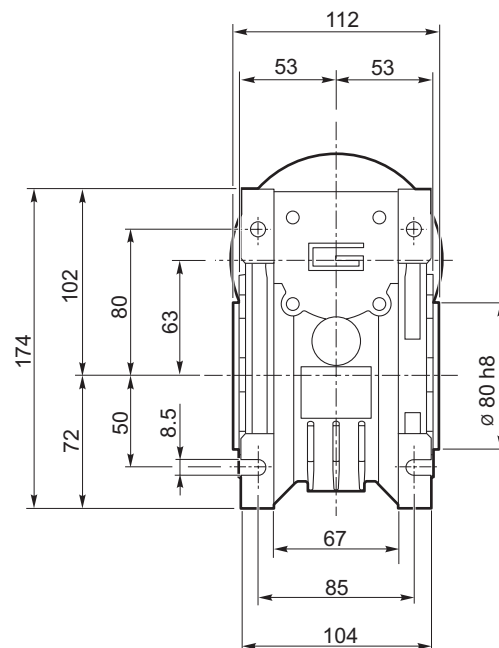
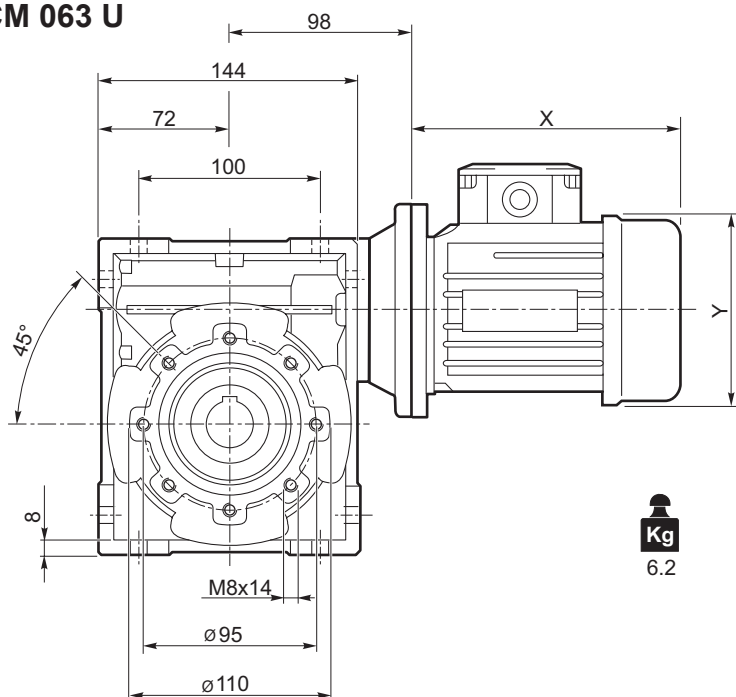
60 Hz

Dimensiones

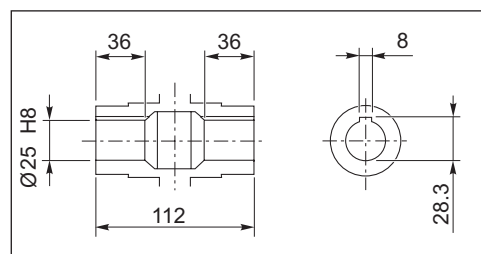
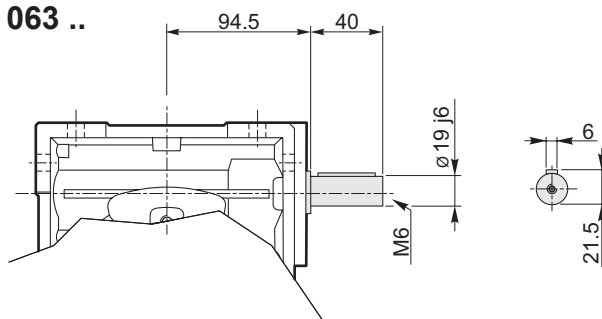
Dimensões

Dimensions

CM 063 U

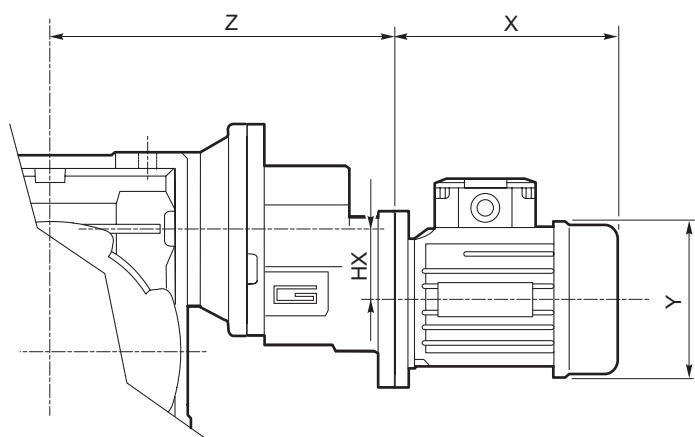


CMIS 063 ..

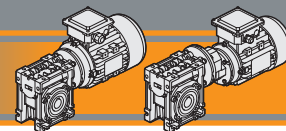


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMP ..



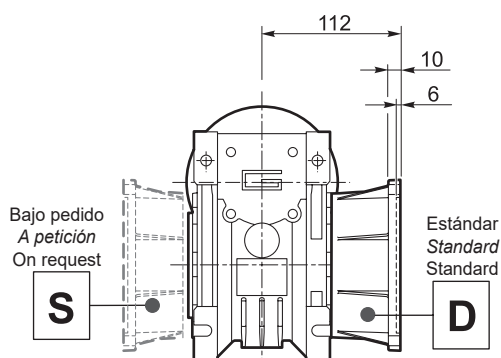
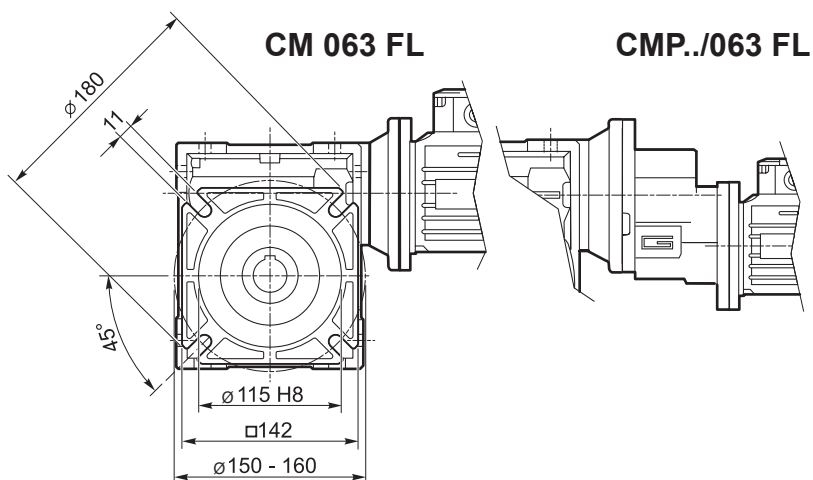
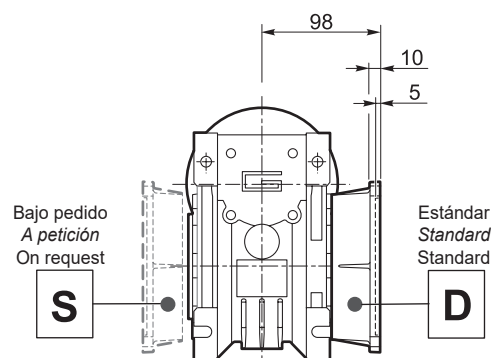
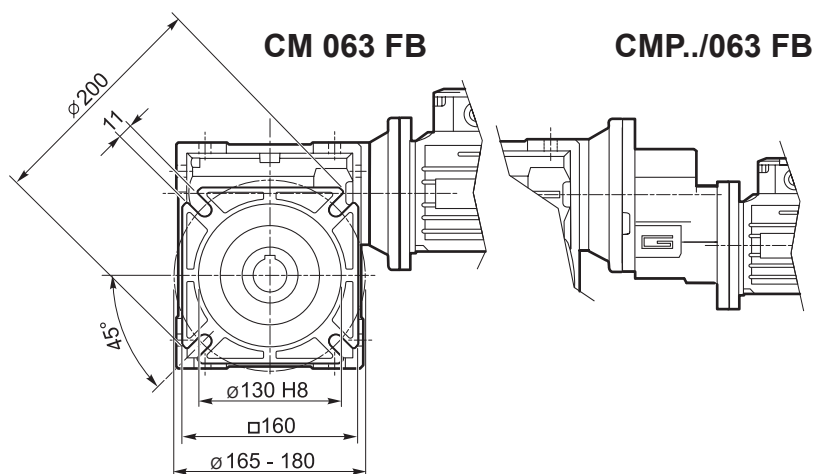
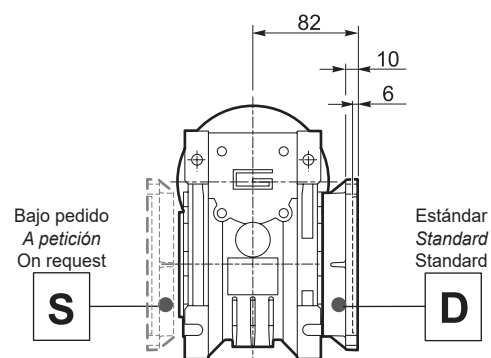
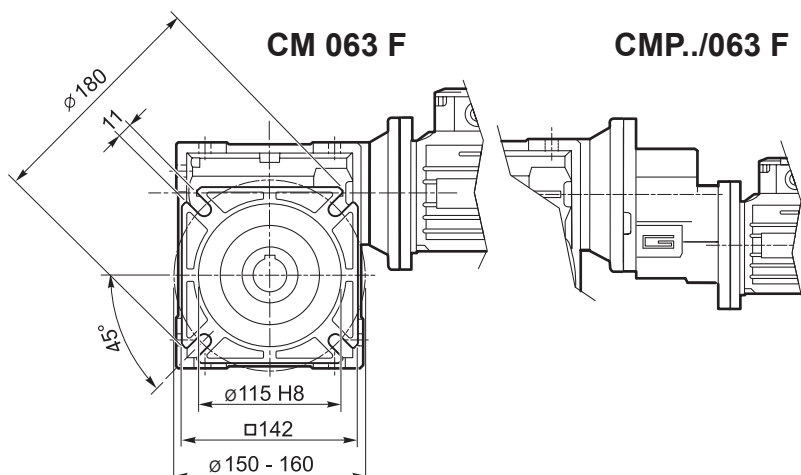
	HX	Z	Kg
063/063	30.5	170	7.2
071/063	41	187	8.2
080/063	41	198	9.0

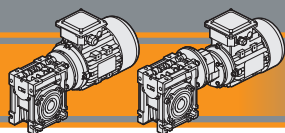


Dimensiones

Dimensões

Dimensions





CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

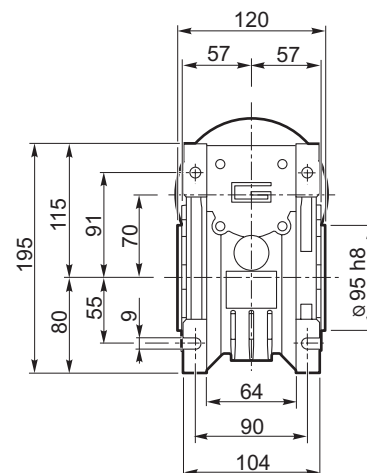
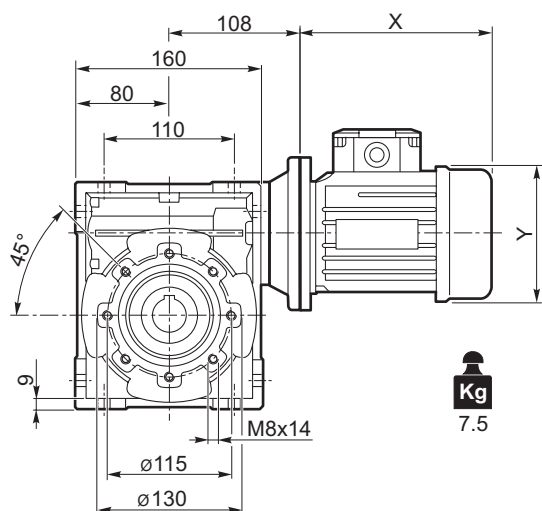
60 Hz

Dimensiones

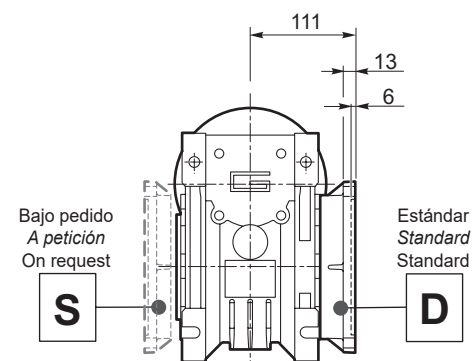
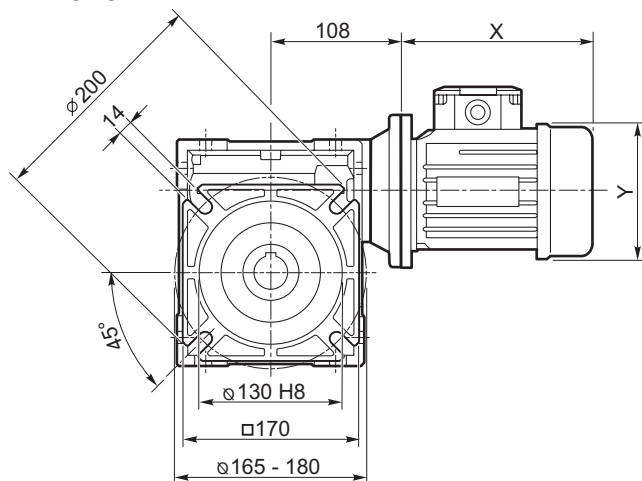
Dimensões

Dimensions

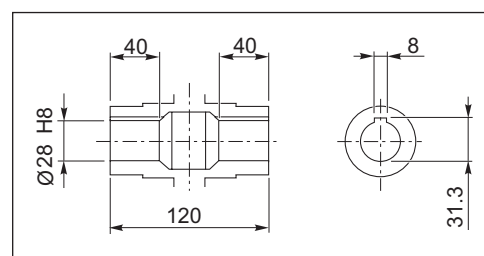
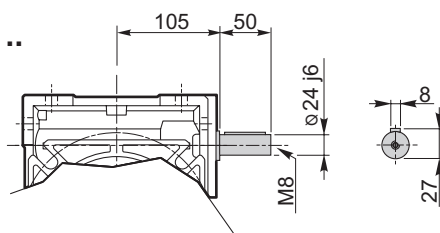
CM 070 U



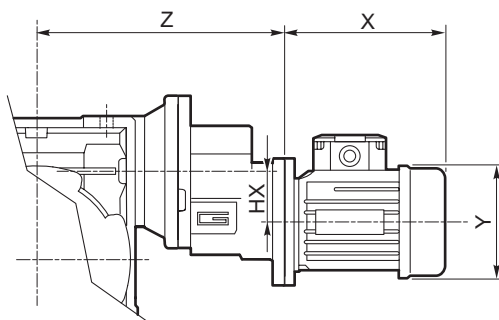
CM 070 F



CMIS 070 ..

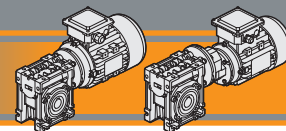


CMP ..



Eje de salida hueco
Eixo saída vazado
Hollow output shaft

	HX	Z	Kg
071/070	41	197	9
080/070	41	208	9.8
090/070	36.5	262	10.5

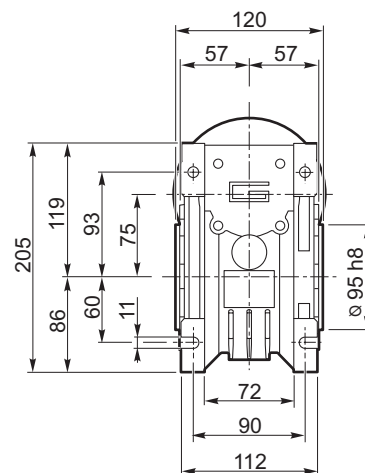
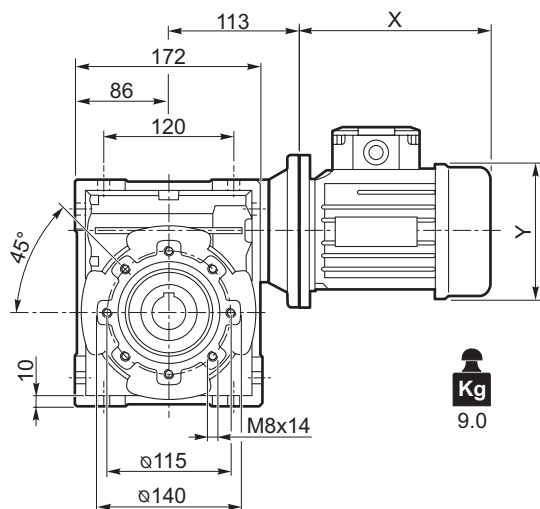


Dimensiones

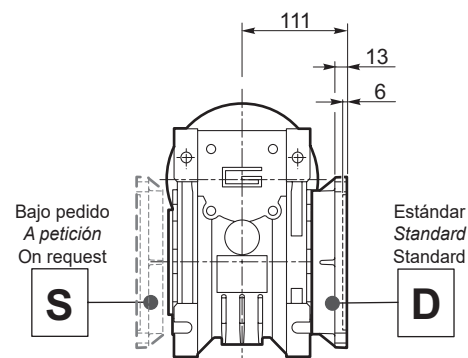
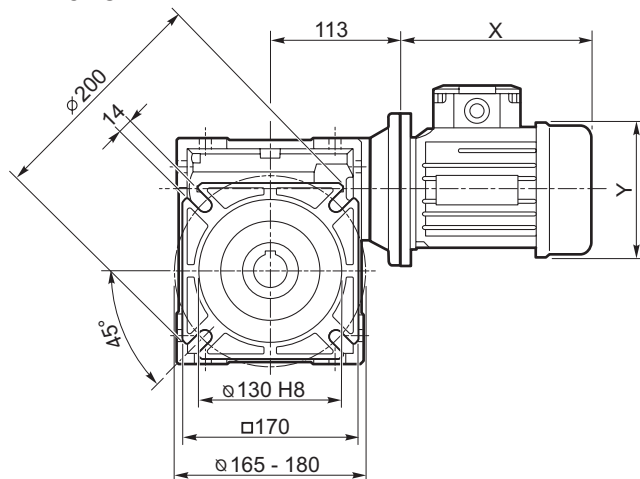
Dimensões

Dimensions

CM 075 U

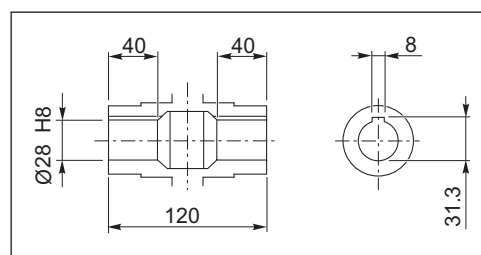
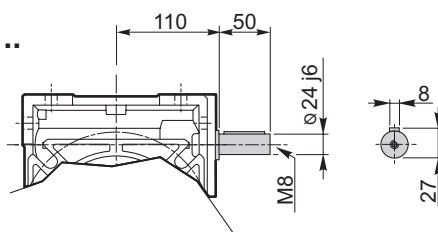


CM 075 F



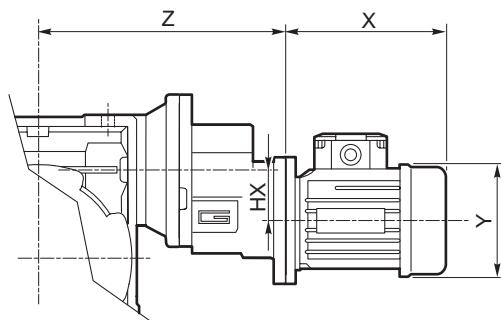
CM/CMP

CMIS 075 ..

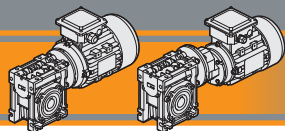


Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft

CMP ..



	HX	Z	Kg
071/075	41	202	11.0
080/075	41	213	11.8
090/075	36.5	267	12.5



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

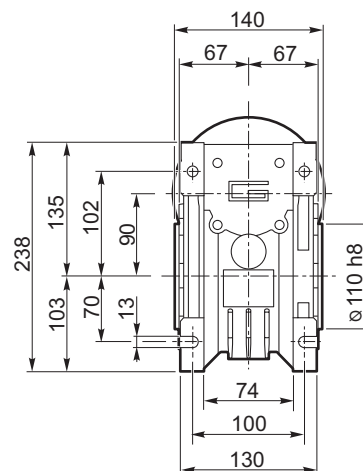
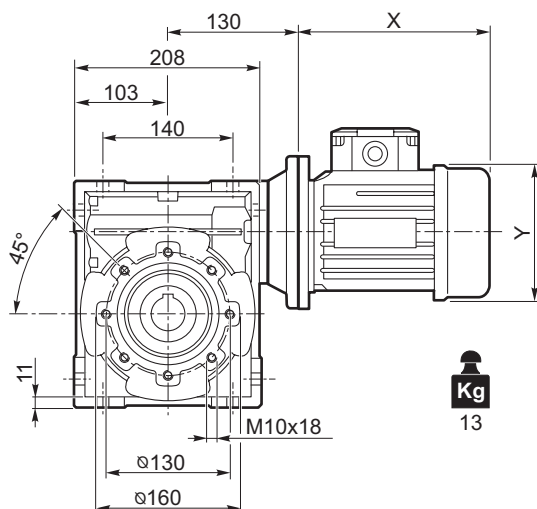
60 Hz

Dimensiones

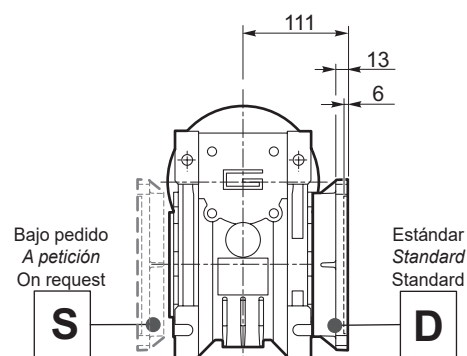
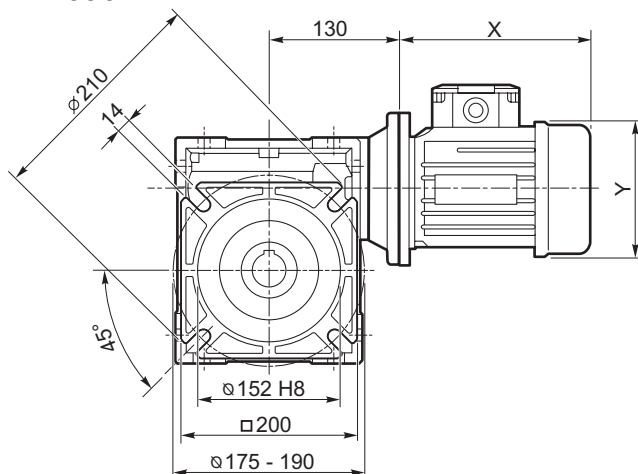
Dimensões

Dimensions

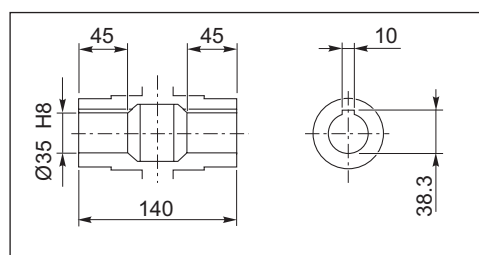
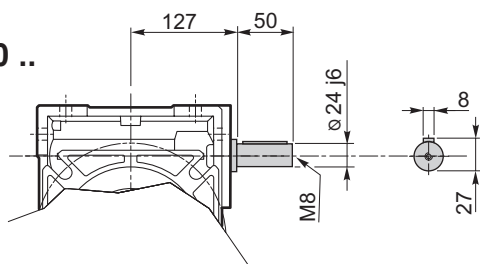
CM 090 U



CM 090 F

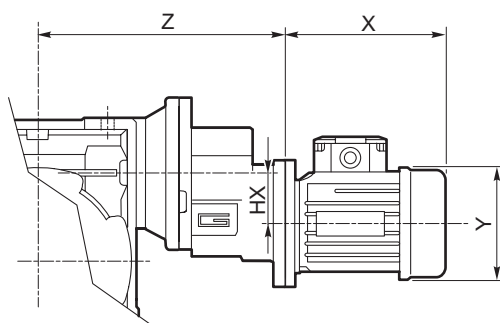


CMIS 090 ..

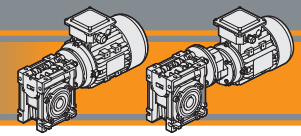


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMP ..



	HX	Z	Kg
071/090	41	219	15.0
080/090	41	230	15.8
090/090	36.5	284	16.5

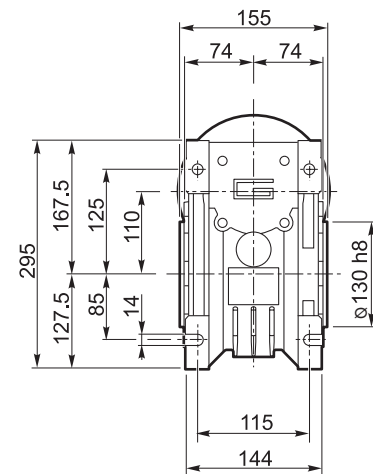
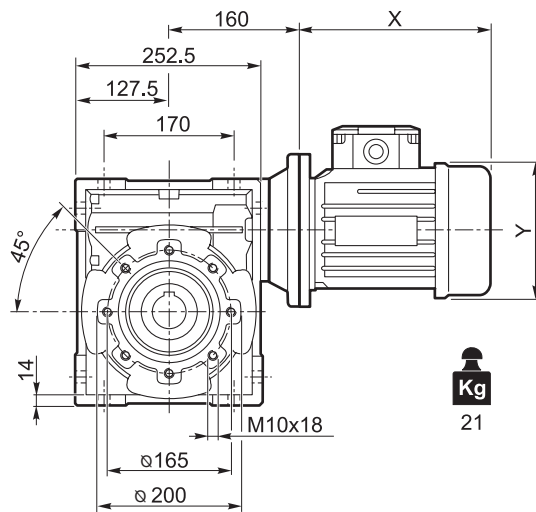


Dimensiones

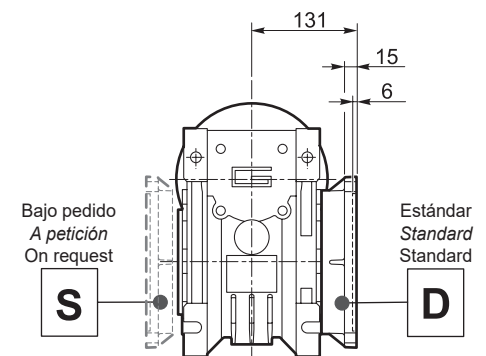
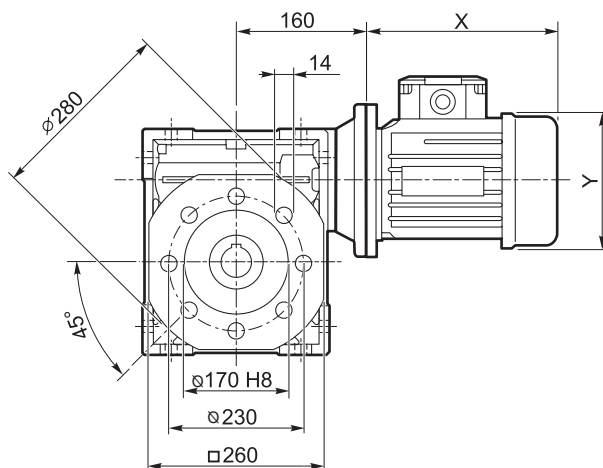
Dimensões

Dimensions

CM 110 U

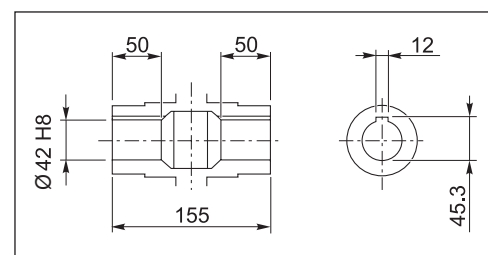
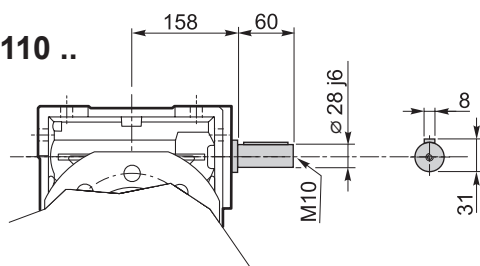


CM 110 F



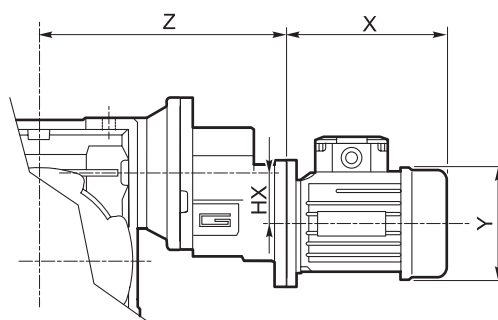
CM/CMP

CMIS 110 ..

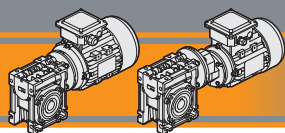


Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft

CMP ..



	HX	Z	Kg
080/110	41	260	23.8
090/110	36.5	314	24.5



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

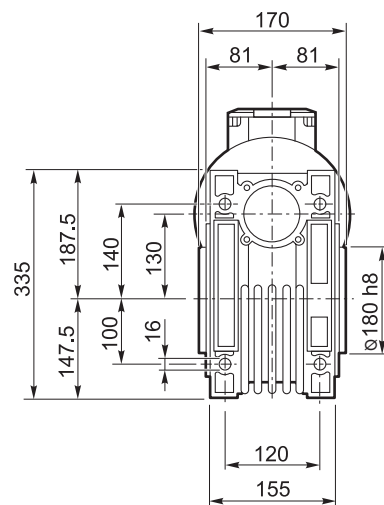
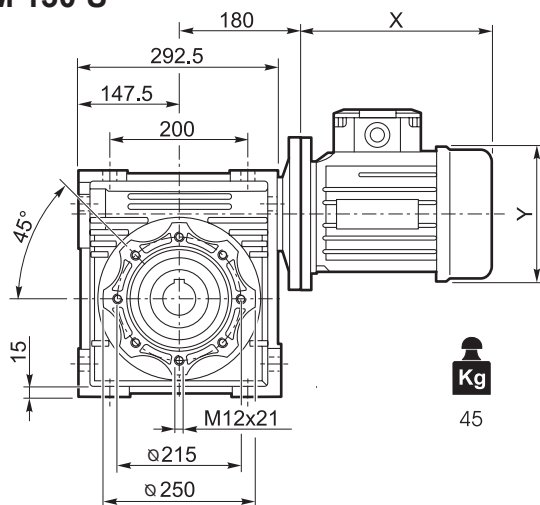
60 Hz

Dimensiones

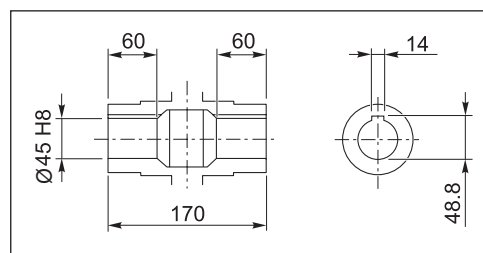
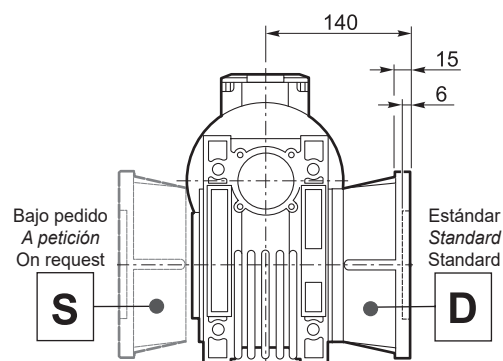
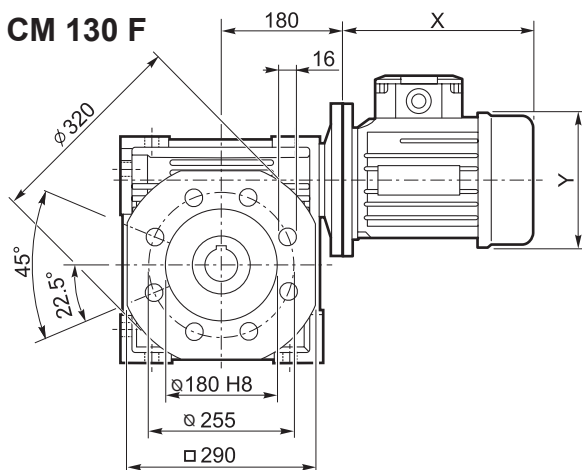
Dimensões

Dimensions

CM 130 U

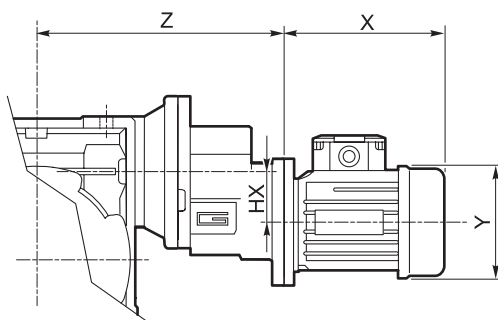


CM 130 F

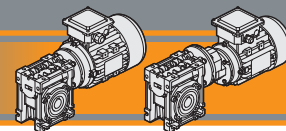


Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMP ..



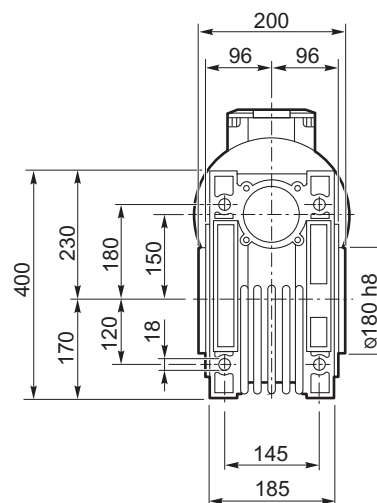
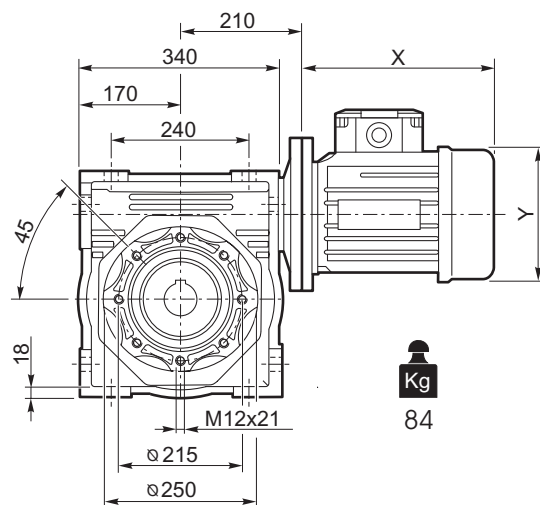
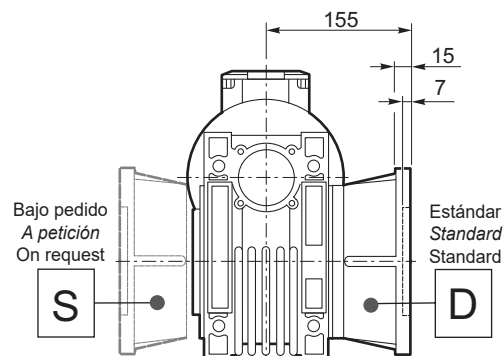
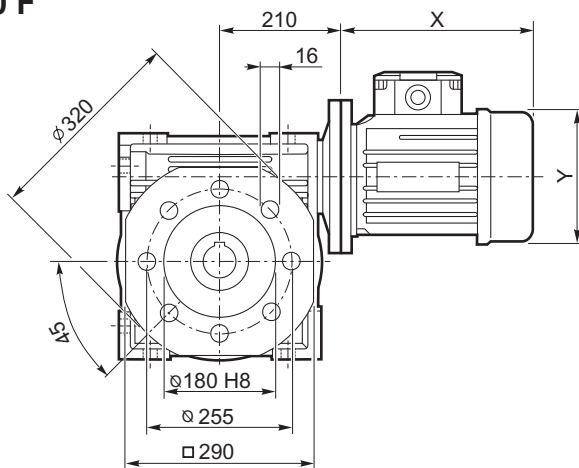
	HX	Z	Kg
080/130	41	280	47.8
090/130	36.5	334	48.5



Dimensiones

Dimensões

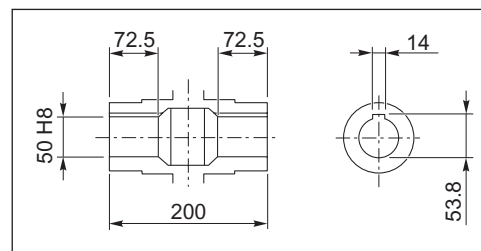
Dimensions

CM 150 U**CM 150 F**

Note: Pedido especial

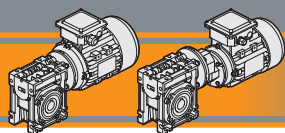
Nota: Item sob pedido especial

Note: Special order item



Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CW/CMP



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

60 Hz

Accesorios

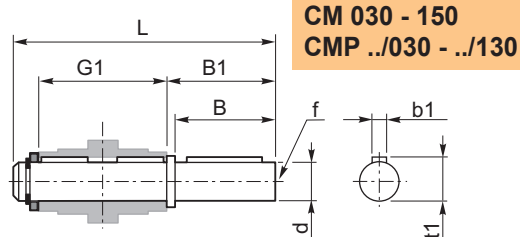
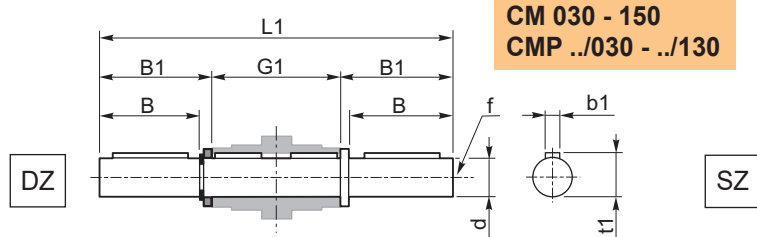
Acessórios

Accessories

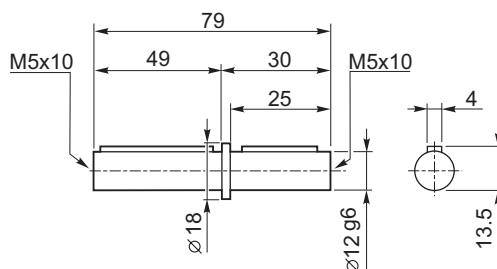
Eje de salida simple y doble

Eixo lenta simples e dupla

Single and double output shaft



CM	CMP	d _{h7}	B	B1	G1	L	L1	f	b1	t1
030	056/030	14	30	32.5	63	102	128	M6	5	16
040	056/040 063/040	18	40	43	78	128	164	M6	6	20.5
050	063/050 071/050	25	50	53.5	92	153	199	M10	8	28
063	063/063 071/063 080/063	25	50	53.5	112	173	219	M10	8	28
075	071/075 080/075 090/075	28	60	63.5	120	192	247	M10	8	31
090	071/090 080/090 090/090	35	80	84.5	140	234	309	M12	10	38
110	080/110 090/110	42	80	84.5	155	249	324	M16	12	45
130	080/130 090/130	45	80	85	170	265	340	M16	14	48.5
150	—	50	82	87	200	297	374	M16	14	53.5



(*)

Nota: disponible solo para eje de salida hueco Ø12

Note: disponível somente para eixo de saída oco de Ø12

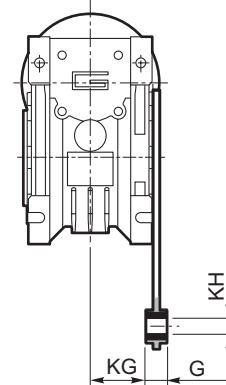
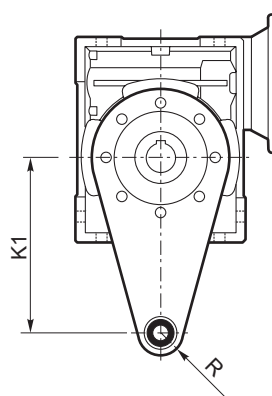
Note: available for output hollow shaft Ø12 only

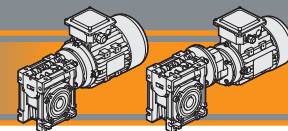
Brazo de reacción

Braço de reação

Torque arm

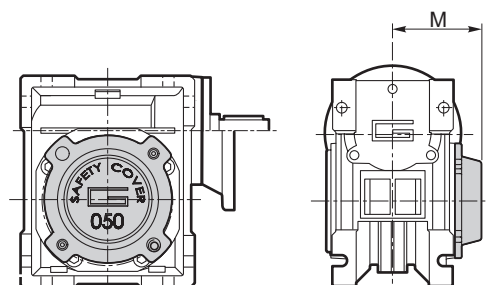
CM	CMP	K1	G	KG	KH	R
030	056/030	85	14	23	8	15
040	056/040 063/040	100	14	31	10	18
050	063/050 071/050	100	14	38	10	18
063	063/063 071/063 080/063	150	14	47.5	10	18
075	071/075 080/075 090/075	200	25	46.5	20	30
090	071/090 080/090 090/090	200	25	56.5	20	30
110	080/110 090/110	250	30	62	25	35
130	080/130 090/130	250	30	69	25	35
150	—	250	30	84	25	35





SC - Cubierta de seguridad / Tampa de proteção / Safety cover

CM	CMP	M
030	056/030	47
040	056/040 063/040	54.5
050	063/050 071/050	62.5
063	063/063 071/063 080/063	73
075	071/075 080/075 090/075	79
090	071/090 080/090 090/090	94
110	080/110 090/110	102
130	080/130 090/130	117
150	—	113



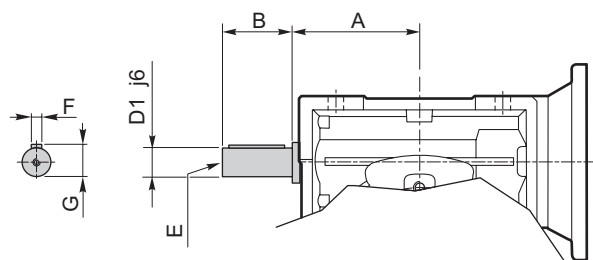
Opciones

Opções

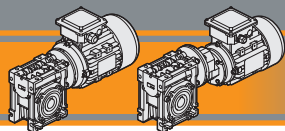
Options

VS - Tornillo sinfín sobresaliente / Parafuso saliente / Extended input shaft

CM	CMP	A	B	D ₁ j6	E	F	G
030	056/030	45	20	9	M4	3	10.2
040	056/040 063/040	53	23	11	M5	4	12.5
050	063/050 071/050	64	30	14	M6	5	16
063	063/063 071/063 080/063	75	40	19	M6	6	21.5
070	071/070 080/070 090/070	84	40	19	M6	6	21.5
075	071/075 080/075 090/075	90	50	24	M8	8	27
090	071/090 080/090 090/090	108	50	24	M8	8	27
110	080/110 090/110	135	60	28	M10	8	31
130	080/130 090/130	—	—	—	—	—	—
150	—	—	—	—	—	—	—



Construido bajo pedido / Fabricado sob encomenda / Built on request



CM/CMP

Motorreductores sinfín corona
Motoredutores de rosca sem fim
Wormgearmotors

60 Hz

Note/Notes

Motorreductores sinfín corona
de doble reducción

**Motoredutores de rosca
sem fim combinados**

Double reduction wormgearmotors



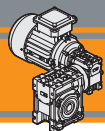


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Nomenclatura	<i>Simbologia</i>	Legend	H3
Relaciones combinadas	<i>Combinações de reduções</i>	Combination ratio	H3
Lubricaci3n	<i>Lubrificação</i>	Lubrication	H4
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**CMM**

Motorreductores sinfin corona de doble reducci3n

Motorreductores de rosca sem fim combinados

Double reduction wormgearmotors

60 Hz**Características técnicas****Características técnicas****Technical features**

El rango de combinaci3n de los motorreductores sinfin corona CMM tienen las siguientes caracteristicas principales:

- Caja de aluminio para tamaños 026, 030, 040, 050, 063, 075, 090 y 110. El tamao 130 tiene carcasa de hierro fundido;
- Doble rodamiento de rodillos c3nicos en tamaos 090, 110 y 130;
- Lubricaci3n permanente con aceite sint3tico.

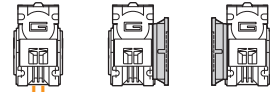
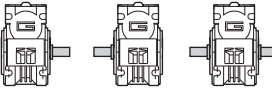
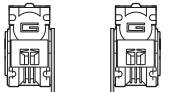
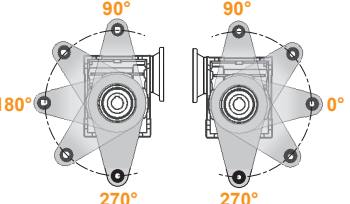
CMM *Motorreductores de rosca sem fim combinados as seguintes caracteristicas:*

- *Carcaça de alumínio em tamanhos 026, 030, 040, 050, 063, 070, 075, 090, 110. Tamanho 130 em carcaça de ferro fundido.*
- *Rolamentos c3nicos nos seguintes tamanhos 090, 110 and 130;*
- *Lubrificaç3o permanente com 3leo sint3tico*

CMM double reduction worm gearmotors range have the following main features:

- Die-cast aluminum housing on sizes 026, 030, 040, 050, 063, 070, 075, 090 and 110. Cast iron housing on size 130;
- Double taper roller bearing on sizes 090, 110 and 130;
- Permanent synthetic oil long-life lubrication.

Clasificaci3n**Designaço****Classification**

REDUCTOR / REDUTOR / GEARBOX											
CMM	030/063	FD	20	71	B5	SZDX	BRSX	90	M1	US1	VS
Tipo Tipo Type	Tamao Tamanho Size	Versi3n Vers3o Version	Relaci3n de reducci3n Rapporto Ratio	IEC IEC	Forma constructiva Forma constructiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacci3n Braço de reaço Torque arm	Ángulo Ángulo Angle	Posici3n de montaje Pos. de montagem Mounting position	Ejecuci3n de montaje Tipos de montagem Mounting execution	Opci3n Opço Options
CMM 	026/026 026/026 (D11) 026/026 (D14) 026/030 026/040 026/050 030/040 030/050 030/063 040/063 040/070 040/075 040/090 050/110 063/130	U FD FS FBD FBS FLD FLS	V3ase tablas Veja tabelas see tables	56.. — 90..	B5 B14	SZDX SZSX DZ	BRDX BRSX *	0° 90° 180° 270°	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M6 (B6) M5 (B7)	UB1 UB2 US1 US2 UV1 UV2 UC1 UC2	VS1 VS2
Relaci3n de reducci3n Vers3o Redutor Gearbox Version			Eje de salida Eixo de saída Output shaft			Brazo de reacci3n Braço de reaço Torque arm *			Ángulo Ángulo Angle		
											

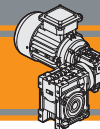
NOTA: el brazo de reacci3n se suministra desmontado.

* NOTA: o braço de reaço é fornecido desmontado.

NOTE: the torque arm will be supplied not assembled.

MOTOR / MOTOR / MOTOR

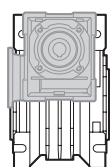
0.25kW	4p	3ph	230/400V	50Hz	T1
Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensi3n Tensão Voltage	Frecuencia Frequência Frequency	Posici3n caja de bornes Pos. Conex3o Terminal box pos.
V3ase tablas Veja tabelas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	60Hz	T1 (Std) T4 T2 T3



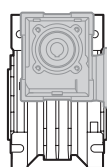
Ejecución de montaje

Tipos de montagem

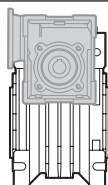
Mounting executions



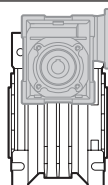
UB1



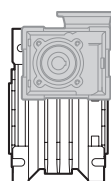
UB2



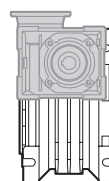
US1



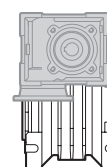
US2



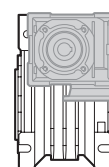
UV1



UV2



UC1



UC2

Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
sf		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load

Relaciones combinadas

Combinações de reduções

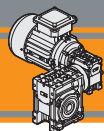
Combination ratio

CMM 026/026 - CMM 026/030 - CMM 026/040 - CMM 026/050

	$i (i_1 \times i_2)$											
	150	225	300	450	600	900	1200	1500	1800	2400	3000	3600
i_1	10	15	10	15	20	30	40	50	60	60	60	60
i_2	15	15	30	30	30	30	30	30	30	40	50	60

CMM 030/040 - CMM 030/050 - CMM 030/063 - CMM 040/063 - CMM 040/070 - CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130

	$i (i_1 \times i_2)$															
	75	100	150	200	250	300	400	500	600	750	900	1200	1500	1800	2400	3000
i_1	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i_2	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50



CMM

Motorreductores sinfín corona de doble reducción
Motoredutores de rosca sem fim combinados
Double reduction wormgearmotors

60 Hz

Lubricación

La lubricación permanente con aceite sintético de larga vida (grado de viscosidad 320) hace que sea posible el uso de los reductores tamaños 40, 50, 63, 75, 90 y 110 en todas las posiciones de montaje. Solo para el tamaño 130 la lubricación depende de la posición de montaje.

Lubrificação

Lubrificação permanente longa vida óleo sintético (Grau de viscosidade 320) faz com que seja possível usar os tamanhos de motoredutores 26, 30, 40, 50, 63, 70, 75, 90, 110 em todas as posições de montagem; Por essa razão eles podem ser instalados em qualquer posição de montagem e não requerem manutenção. Apenas para o tamanho 130, a lubrificação depende de posição de montagem.

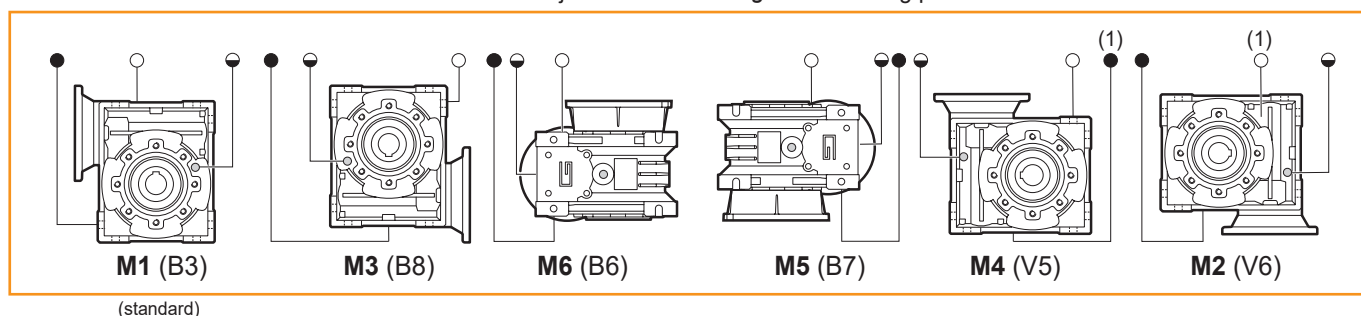
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors size 26, 30, 40, 50, 63, 70, 75, 90, 110 in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance. Only for size 130, the lubrication depended of mounting positions.

Cantidad de aceite (litros) / Quantidade de óleo (litros) / Oil quantity (litres)						
	M1 (B3)	M3 (B8)	M6 (B6)	M5 (B7)	M4 (V5)	M2 (V6)
CM130	4.5	3.3	3.5	3.5	4.5	3.3

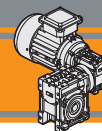
Lubricación permanente
 Lubrificação permanente
 Life lubrication

Posición de montaje / Pos. de montagem / Mounting positions



(1): Tapón en posición trasera
 Válvula na posição posterior
 Plug in backside position

○ Tapón de purga y tapón de llenado del aceite
 Válvula de Respiro e tampa de preenchimento / Breather and filling plug
 ● Nivel del aceite / Nível de óleo / Oil level plug
 ● Tapon de drenado del aceite / Oil drain plug



Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.09							0.09						
(0.12 hp)	12	33	0.8	150	CMM 026/026	B14	(0.12 hp)	12	45	3.6	150	CMM 030/050	B5/B14
56B4 (1750 min ⁻¹)	7.8	33	0.8	225		B14	56B4 (1750 min ⁻¹)	8.8	56	2.4	200		B5/B14
	5.8	34	0.8	300		B14		7.0	66	1.9	250		B5/B14
	3.9	34	0.8	450		B14		5.8	72	2.3	300		B5/B14
	2.9	34	0.8	600		B14		4.4	87	1.5	400		B5/B14
	1.9	34	0.8	900		B14		3.5	99	1.3	500		B5/B14
	1.5	34	0.8	1200		B14		2.9	128	1.3	600		B5/B14
	1.2	34	0.8	1500		B14		2.3	154	1.1	750		B5/B14
	0.97	34	0.8	1800		B14		1.9	172	0.9	900		B5/B14
	0.73	28	0.8	2400		B14		1.5	203	0.8	1200		B5/B14
	0.58	25	0.8	3000		B14		1.2	203	0.8	1500		B5/B14
0.49	23	0.8	3600			B14	0.97	203	0.8	1800			B5/B14
							0.73	169	0.8	2400			B5/B14
							0.58	156	0.8	3000			B5/B14
	12	41	1.0	150	CMM 026/030	B14		5.8	74	4.2	300	CMM 030/063	B5/B14
	7.8	49	0.8	225		B14		4.4	89	2.9	400		B5/B14
	5.8	50	0.8	300		B14		3.5	103	2.2	500		B5/B14
	3.9	50	0.8	450		B14		2.9	138	2.2	600		B5/B14
	2.9	50	0.8	600		B14		2.3	164	1.9	750		B5/B14
	1.9	50	0.8	900		B14		1.9	186	1.7	900		B5/B14
	1.5	50	0.8	1200		B14		1.5	230	1.3	1200		B5/B14
	1.2	50	0.8	1500		B14		1.2	265	1.2	1500		B5/B14
	0.97	50	0.8	1800		B14		0.97	308	1.0	1800		B5/B14
	0.73	43	0.8	2400		B14		0.73	325	0.8	2400		B5/B14
	0.58	38	0.8	3000		B14		0.58	290	0.8	3000		B5/B14
	0.49	34	0.8	3600		B14							
	12	42	2.1	150	CMM 026/040	B14		5.8	74	4.2	300	CMM 040/063	B5/B14
	7.8	59	1.5	225		B14		4.4	89	2.9	400		B5/B14
	5.8	70	1.3	300		B14		3.5	103	2.2	500		B5/B14
	3.9	98	0.9	450		B14		2.9	138	2.2	600		B5/B14
	2.9	113	0.8	600		B14		2.3	164	1.9	750		B5/B14
	1.9	113	0.8	900		B14		1.9	186	1.7	900		B5/B14
	1.5	113	0.8	1200		B14		1.5	230	1.3	1200		B5/B14
	1.2	113	0.8	1500		B14		1.2	265	1.2	1500		B5/B14
	0.97	113	0.8	1800		B14		0.97	308	1.0	1800		B5/B14
	0.73	93	0.8	2400		B14		0.73	325	0.8	2400		B5/B14
	0.58	85	0.8	3000		B14		0.58	290	0.8	3000		B5/B14
	0.49	78	0.8	3600		B14							
	12	44	3.3	150	CMM 026/050	B14		2.9	138	3.3	600	CMM 040/070	B5/B14
	7.8	62	2.3	225		B14		2.3	164	2.8	750		B5/B14
	5.8	71	2.3	300		B14		1.9	186	2.4	900		B5/B14
	3.9	100	1.6	450		B14		1.5	207	2.2	1200		B5/B14
	2.9	126	1.3	600		B14		1.2	265	1.7	1500		B5/B14
	1.9	169	1.0	900		B14		0.97	308	1.5	1800		B5/B14
	1.5	203	0.8	1200		B14		0.73	369	1.0	2400		B5/B14
	1.2	203	0.8	1500		B14		0.58	420	0.8	3000		B5/B14
	0.97	203	0.8	1800		B14						CMM 040/075	B5/B14
	0.73	169	0.8	2400		B14		1.5	230	2.4	1200		B5/B14
	0.58	156	0.8	3000		B14		1.2	265	2.1	1500		B5/B14
	0.49	141	0.8	3600		B14		0.97	308	1.8	1800		B5/B14
								0.73	376	1.2	2400		B5/B14
								0.58	427	0.9	3000		B5/B14
	23	23	3.6	75	CMM 030/040	B5/B14						CMM 040/090	B5/B14
	18	31	2.7	100		B5/B14							B5/B14
	12	43	2.0	150		B5/B14		1.2	278	2.5	1500		B5/B14
	8.8	55	1.3	200		B5/B14		0.97	323	2.0	1800		B5/B14
	7.0	66	1.0	250		B5/B14		0.73	397	2.0	2400		B5/B14
	5.8	71	1.3	300		B5/B14		0.58	461	1.5	3000		B5/B14
	4.4	86	0.9	400		B5/B14							
	3.5	85	0.8	500		B5/B14							
	2.9	113	0.8	600		B5/B14							
	2.3	113	0.8	750		B5/B14							
	1.9	113	0.8	900		B5/B14							
	1.5	113	0.8	1200		B5/B14							
	1.2	113	0.8	1500		B5/B14							
	0.97	113	0.8	1800		B5/B14							
	0.73	93	0.8	2400		B5/B14							
	0.58	85	0.8	3000		B5/B14							

Nota:

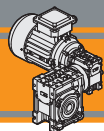
Por favor, compruebe que el par de salida M2 no exceda el valor en las áreas grises

N. B.

Sempre verifique que o torque (M2) não exceda o valor indicado nas tabelas cinzas

N.B.

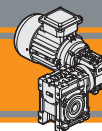
Please check that the output torque M2 does not exceed the value in the grey areas

**CMM**

Motorreductores sinfín corona de doble reducción
 Motoredutores de rosca sem fim combinados
 Double reduction wormgearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.12							0.18						
(0.16 hp)	23	31	2.7	75	CMM	B5/B14	(0.25 hp)	23	47	1.8	75	CMM	B5/B14
	18	41	2.0	100	030/040	B5/B14		18	62	1.4	100	030/040	B5/B14
63A4	12	57	1.5	150		B5/B14	63B4	12	85	1.0	150		B5/B14
(1750 min ⁻¹)	8.8	74	1.0	200		B5/B14	(1750 min ⁻¹)						
	5.8	94	1.0	300				23	48	3.1	75	CMM	B5/B14
								18	63	2.4	100	030/050	B5/B14
	23	32	4.6	75	CMM	B5/B14		12	89	1.8	150		B5/B14
	18	42	3.6	100	030/050	B5/B14		8.8	112	1.2	200		B5/B14
	12	59	2.7	150		B5/B14		7.0	132	0.9	250		B5/B14
	8.8	75	1.8	200		B5/B14		5.8	144	1.1	300		B5/B14
	7.0	88	1.4	250		B5/B14							
	5.8	96	1.7	300		B5/B14		12	88	2.4	150	CMM	B5/B14
	4.4	117	1.2	400		B5/B14		8.8	111	2.4	200	030/063	B5/B14
	3.5	132	0.9	500		B5/B14		7.0	130	1.8	250		B5/B14
	2.9	171	0.9	600		B5/B14		5.8	149	2.1	300		B5/B14
								4.4	178	1.5	400		B5/B14
	8.8	74	3.5	200	CMM	B5/B14		3.5	206	1.1	500		B5/B14
	7.0	87	2.6	250	030/063	B5/B14		2.9	265	1.2	600		B5/B14
	5.8	99	3.1	300		B5/B14		2.3	318	1.0	750		B5/B14
	4.4	119	2.2	400		B5/B14		1.9	355	0.9	900		B5/B14
	3.5	138	1.7	500		B5/B14							
	2.9	177	1.8	600		B5/B14		8.8	111	2.4	200	CMM	B5/B14
	2.3	212	1.5	750		B5/B14		7.0	130	1.8	250	040/063	B5/B14
	1.9	237	1.3	900		B5/B14		5.8	149	2.1	300		B5/B14
	1.5	292	1.1	1200		B5/B14		4.4	178	1.5	400		B5/B14
	1.2	342	0.9	1500		B5/B14		3.5	206	1.1	500		B5/B14
								2.9	276	1.1	600		B5/B14
	4.4	119	2.2	400	CMM	B5/B14		2.3	327	0.9	750		B5/B14
	3.5	138	1.7	500	040/063	B5/B14		1.9	371	0.8	900		B5/B14
	2.9	184	1.7	600		B5/B14							
	2.3	218	1.4	750		B5/B14		8.8	112	3.5	200	CMM	B5/B14
	1.9	248	1.3	900		B5/B14		7.0	134	2.5	250	040/070	B5/B14
	1.5	306	1.0	1200		B5/B14		5.8	149	3.1	300		B5/B14
	1.2	354	0.9	1500		B5/B14		4.4	178	2.1	400		B5/B14
								3.5	206	1.6	500		B5/B14
	3.5	138	2.4	500	CMM	B5/B14		2.9	276	1.6	600		B5/B14
	2.9	184	2.5	600	040/070	B5/B14		2.3	327	1.4	750		B5/B14
	2.3	218	2.1	750		B5/B14		1.9	371	1.2	900		B5/B14
	1.9	248	1.8	900		B5/B14		1.5	414	1.1	1200		B5/B14
	1.5	276	1.6	1200		B5/B14		1.2	530	0.9	1500		B5/B14
	1.2	354	1.3	1500		B5/B14							
	0.97	410	1.1	1800		B5/B14		4.4	182	2.6	400	CMM	B5/B14
								3.5	206	2.0	500	040/075	B5/B14
	2.3	218	2.5	750	CMM	B5/B14		2.9	276	2.0	600		B5/B14
	1.9	248	2.2	900	040/075	B5/B14		2.3	327	1.7	750		B5/B14
	1.5	306	1.8	1200		B5/B14		1.9	371	1.5	900		B5/B14
	1.2	354	1.5	1500		B5/B14		1.5	460	1.2	1200		B5/B14
	0.97	410	1.3	1800		B5/B14		1.2	530	1.0	1500		B5/B14
	0.73	501	0.9	2400		B5/B14		0.97	615	0.9	1800		B5/B14
	1.5	322	2.4	1200	CMM	B5/B14		3.5	223	3.1	500	CMM	B5/B14
	1.2	371	1.9	1500	040/090	B5/B14		2.9	290	2.5	600	040/090	B5/B14
	0.97	431	1.5	1800		B5/B14		2.3	343	2.0	750		B5/B14
	0.73	529	1.5	2400		B5/B14		1.9	390	2.2	900		B5/B14
	0.58	615	1.1	3000		B5/B14		1.5	483	1.6	1200		B5/B14
								1.2	557	1.3	1500		B5/B14
	0.97	453	2.8	1800	CMM	B5/B14		0.97	646	1.0	1800		B5/B14
	0.73	575	2.5	2400	050/110	B5/B14		0.73	793	1.0	2400		B5/B14
	0.58	684	1.9	3000		B5/B14							
								1.5	505	2.8	1200	CMM	B5/B14
	0.73	624	2.9	2400	CMM	B5		1.2	594	2.2	1500	050/110	B5/B14
	0.58	755	2.1	3000	063/130	B5		0.97	679	1.9	1800		B5/B14
								0.73	863	1.7	2400		B5/B14
								0.58	1026	1.2	3000		B5/B14
								0.97	735	2.8	1800	CMM	B5
								0.73	936	1.9	2400	063/130	B5
								0.58	1132	1.4	3000		B5

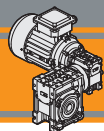


Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.25							0.37						
(0.33 hp)	23	65	1.3	75	CMM	B5/B14	(0.50 hp)	23	100	2.9	75	CMM	B5/B14
	18	86	1.0	100	030/040	B5/B14		18	131	2.2	100	CMM	B5/B14
63C4	23	66	2.2	75	CMM	B5/B14	71A4	12	181	1.7	150	040/063	B5/B14
(1750 min ⁻¹)	18	87	1.8	100	030/050	B5/B14	(1750 min ⁻¹)	8.8	227	1.1	200		B5/B14
	12	124	1.3	150		B5/B14		7.0	267	0.9	250		B5/B14
	8.8	156	0.9	200		B5/B14		5.8	305	1.0	300		B5/B14
	23	67	2.2	75	CMM	B5/B14		23	102	3.2	75	CMM	B5/B14
	18	88	1.8	100	030/063	B5/B14		18	132	2.5	100	040/070	B5/B14
	12	122	1.8	150		B5/B14		12	183	2.4	150		B5/B14
	8.8	154	1.7	200		B5/B14		8.8	231	1.7	200		B5/B14
	7.0	180	1.3	250		B5/B14		7.0	276	1.2	250		B5/B14
	5.8	206	1.5	300		B5/B14		5.8	305	1.5	300		B5/B14
	4.4	248	1.1	400		B5/B14		4.4	366	1.0	400		B5/B14
	12	122	2.5	150	CMM	B5/B14		8.8	234	2.0	200	CMM	B5/B14
	8.8	154	1.7	200	040/063	B5/B14		7.0	276	1.5	250	040/075	B5/B14
	7.0	180	1.3	250		B5/B14		5.8	305	1.8	300		B5/B14
	5.8	206	1.5	300		B5/B14		4.4	373	1.3	400		B5/B14
	4.4	248	1.1	400		B5/B14		3.5	424	1.0	500		B5/B14
	8.8	156	2.5	200	CMM	B5/B14		2.9	567	1.0	600		B5/B14
	7.0	186	1.8	250	040/070	B5/B14		8.8	244	2.5	200	CMM	B5/B14
	5.8	206	2.2	300		B5/B14		7.0	293	2.4	250	040/090	B5/B14
	4.4	248	1.5	400		B5/B14		5.8	321	2.5	300		B5/B14
	3.5	287	1.2	500		B5/B14		4.4	393	2.1	400		B5/B14
	2.9	383	1.2	600		B5/B14		3.5	458	1.5	500		B5/B14
	2.3	454	1.0	750		B5/B14		2.9	595	1.2	600		B5/B14
	1.9	516	0.9	900		B5/B14		2.3	706	1.0	750		B5/B14
	7.0	186	2.2	250	CMM	B5/B14		1.9	801	1.1	900		B5/B14
	5.8	206	2.7	300	040/075	B5/B14		1.5	992	0.8	1200		B5/B14
	4.4	252	1.9	400		B5/B14		4.4	419	3.4	400	CMM	B5/B14
	3.5	287	1.4	500		B5/B14		3.5	498	2.6	500	050/110	B5/B14
	2.9	383	1.4	600		B5/B14		2.9	613	2.2	600		B5/B14
	2.3	454	1.2	750		B5/B14		2.3	737	1.7	750		B5/B14
	1.9	516	1.1	900		B5/B14		1.9	837	1.9	900		B5/B14
	1.5	638	0.9	1200		B5/B14		1.5	1039	1.3	1200		B5/B14
	4.4	266	3.1	400	CMM	B5/B14		1.2	1221	1.1	1500		B5/B14
	3.5	309	2.2	500	040/090	B5/B14		0.97	1396	0.9	1800		B5/B14
	2.9	402	1.8	600		B5/B14		2.3	780	2.6	750	CMM	B5/B14
	2.3	477	1.4	750		B5/B14		1.9	900	2.3	900	063/130	B5/B14
	1.9	541	1.6	900		B5/B14		1.5	1119	1.8	1200		B5/B14
	1.5	670	1.1	1200		B5/B14		1.2	1319	1.6	1500		B5/B14
	1.2	774	0.9	1500		B5/B14		0.97	1511	1.4	1800		B5/B14
	3.5	336	3.8	500	CMM	B5/B14		0.73	1923	0.9	2400		B5/B14
	2.9	414	3.2	600	050/110	B5/B14							
	2.3	498	2.6	750		B5/B14							
	1.9	566	2.8	900		B5/B14							
	1.5	702	2.0	1200		B5/B14							
	1.2	825	1.6	1500		B5/B14							
	0.97	943	1.3	1800		B5/B14							
	0.73	1198	1.2	2400		B5/B14							
	0.58	1424	0.9	3000		B5/B14							
	1.5	756	2.7	1200	CMM	B5							
	1.2	891	2.3	1500	063/130	B5							
	0.97	1021	2.0	1800		B5							
	0.73	1300	1.4	2400		B5							
	0.58	1573	1.0	3000		B5							

**CMM**

Motorreductores sinfín corona de doble reducción
 Motores de rosca sem fim combinados
 Double reduction wormgearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

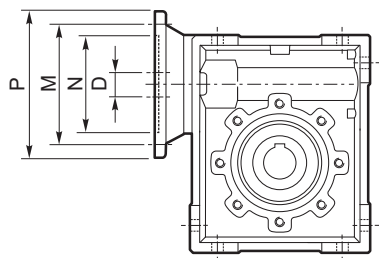
P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.55							0.75						
(0.75 hp)	23	149	1.9	75	CMM 040/063	B5/B14 B5/B14 B5/B14	(1.0 hp)	23	216	2.8	75	CMM 050/110	B5/B14 B5/B14 B5/B14
71B4 (1750 min ⁻¹)	18	194	1.5	100			18	282	2.3	100			
	12	269	1.1	150			80A4 (1750 min ⁻¹)	12	397	2.3	150		
	23	151	2.2	75	CMM 040/070	B5/B14 B5/B14 B5/B14 B5/B14	8.8	515	2.3	200	B5/B14 B5/B14 B5/B14 B5/B14		
	18	197	1.7	100			7.0	626	2.1	250			
	12	272	1.6	150			5.8	668	2.4	300			
	8.8	343	1.1	200			4.4	849	1.7	400			
	23	151	2.2	75	CMM 040/075	B5/B14 B5/B14 B5/B14 B5/B14	3.5	1009	1.3	500	B5/B14 B5/B14 B5/B14 B5/B14		
	18	197	1.7	100			2.9	1242	1.1	600			
	12	276	1.7	150			2.3	1493	0.9	750			
	8.8	348	1.3	200			1.9	1697	0.9	900			
7.0	410	1.0	250	CMM 040/090	B5/B14 B5/B14 B5/B14 B5/B14	7.0	642	2.5	250	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14		
5.8	454	1.2	300			5.8	697	3.0	300				
4.4	555	0.8	400			4.4	887	2.0	400				
12	284	1.7	150			3.5	1074	1.5	500				
8.8	363	1.7	200	CMM 050/110	B5/B14 B5/B14 B5/B14 B5/B14	2.9	1313	1.6	600	B5/B14 B5/B14 B5/B14 B5/B14			
7.0	435	1.6	250			2.3	1580	1.3	750				
5.8	477	1.7	300			1.9	1823	1.1	900				
4.4	585	1.4	400			1.5	2269	0.9	1200				
3.5	681	1.0	500	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	12	596	2.7	150	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14		
2.9	885	0.8	600			8.8	774	2.3	200				
7.0	459	2.8	250			7.0	942	1.7	250				
5.8	490	3.1	300			5.8	1022	2.0	300				
4.4	622	2.3	400	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	4.4	1301	1.4	400	B5/B14 B5/B14 B5/B14 B5/B14			
3.5	740	1.7	500			3.5	1575	1.0	500				
2.9	911	1.4	600			2.9	1925	1.1	600				
2.3	1095	1.2	750			2.3	2318	0.9	750				
1.9	1245	1.3	900	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	12	596	2.7	150	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14		
1.5	1544	1.0	1200			8.8	774	2.3	200				
3.5	787	2.0	500			7.0	942	1.7	250				
2.9	963	2.1	600			5.8	1022	2.0	300				
2.3	1159	1.8	750	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	4.4	1301	1.4	400	B5/B14 B5/B14 B5/B14 B5/B14			
1.9	1337	1.5	900			3.5	1575	1.0	500				
1.5	1664	1.2	1200			2.9	1925	1.1	600				
1.2	1961	1.1	1500			2.3	2318	0.9	750				
0.97	2246	0.9	1800	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	12	596	2.7	150	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14		
3.5	787	2.0	500			8.8	774	2.3	200				
2.9	963	2.1	600			7.0	942	1.7	250				
2.3	1159	1.8	750			5.8	1022	2.0	300				
1.9	1337	1.5	900	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14	4.4	1301	1.4	400	B5/B14 B5/B14 B5/B14 B5/B14			
1.5	1664	1.2	1200			3.5	1575	1.0	500				
1.2	1961	1.1	1500			2.9	1925	1.1	600				
0.97	2246	0.9	1800			2.3	2318	0.9	750				
1.1							1.5						
(1.5 hp)	23	317	1.9	75	CMM 050/110	B5/B14 B5/B14 B5/B14	(1.5 hp)	23	443	2.5	75	CMM 063/130	B5/B14 B5/B14 B5/B14
80B4 (1750 min ⁻¹)	18	413	1.5	100			18	577	2.0	100			
	12	582	1.5	150			12	813	2.0	150			
	8.8	755	1.5	200	8.8	1056	1.7	200					
	7.0	918	1.4	250	7.0	1285	1.3	250					
	5.8	980	1.6	300	5.8	1394	1.5	300					
	4.4	1245	1.2	400	4.4	1774	1.0	400					
	3.5	1480	0.9	500	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14							
	12	596	2.7	150			12	813	2.0	150			
	8.8	774	2.3	200			8.8	1056	1.7	200			
	7.0	942	1.7	250			7.0	1285	1.3	250			
5.8	1022	2.0	300	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
4.4	1301	1.4	400			5.8	1394	1.5	300				
3.5	1575	1.0	500			4.4	1774	1.0	400				
2.9	1925	1.1	600			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.9	1245	1.3	900	12	813			2.0	150				
1.5	1544	1.0	1200	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400				
1.5	1664	1.2	1200			CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14						
1.2	1961	1.1	1500	12	813			2.0	150				
0.97	2246	0.9	1800	8.8	1056			1.7	200				
3.5	787	2.0	500	7.0	1285			1.3	250				
2.9	963	2.1	600	CMM 063/130	B5/B14 B5/B14 B5/B14 B5/B14								
2.3	1159	1.8	750			5.8	1394	1.5	300				
1.9	1337	1.5	900			4.4	1774	1.0	400</				



Motores Aplicables IEC

Motores aplicáveis

IEC Motor adapters



N.B. Las áreas grises indican los tamaños de los motores aplicables

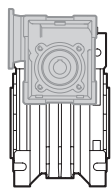
N.B. As áreas evidenciadas em cinza indicam a aplicabilidade da correspondente grandeza do motor.

N.B. Grey areas indicate motor inputs available on each size of unit.

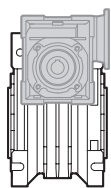
B/BS = Casquillo de reducción en acero

B/BS = Bucha de redução em aço

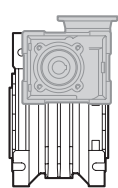
B/BS = Metal shaft sleeve



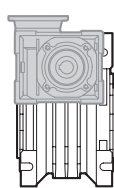
US1



US2

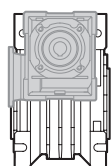


UV1

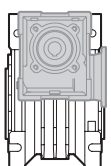


UV2

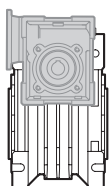
CMM	IEC	N	M	P	D	i ₁						
						10	15	20	30	40	50	60
026/026	56B14	50	65	80	9							



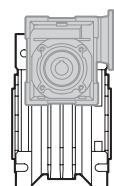
UB1



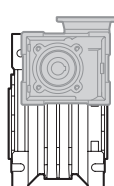
UB2



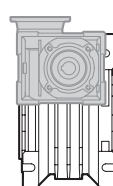
US1



US2

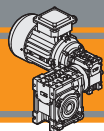


UV1



UV2

CMM	IEC	N	M	P	D	i ₁						
						10	15	20	30	40	50	60
026/030 026/040 026/050	56B14	50	65	80	9							



CMM

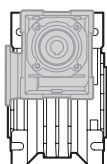
Motorreductores sinfín corona de doble reducción
Motoredutores de rosca sem fim combinados
Double reduction wormgearmotors

60 Hz

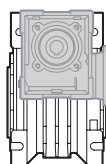
Motores Aplicables IEC

Motores aplicáveis

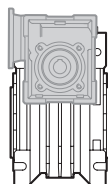
IEC Motor adapters



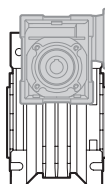
UB1



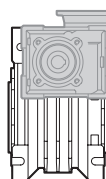
UB2



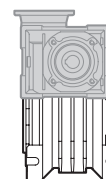
US1



US2



UV1



UV2

CMM	IEC	N	M	P	D	i ₁									
						7.5	10	15	20	25	30	40	50	60	
030/040 030/050 030/063	63B5	95	115	140	11										
	63B14	60	75	90											
	56B5	80	100	120	9	B	B	B	B	B	B	B	B		
	56B14	50	65	80											
040/063 040/070 040/075 040/090	71B5 (*)	110	130	160	14										
	71B14	70	85	105											
	63B5	95	115	140	11	B	B	B	B	B	B	B			
	63B14	60	75	90											
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B	
	56B14	50	65	80											
050/110	80B5	130	165	200	19										
	80B14	80	100	120											
	71B5	110	130	160	14	B	B	B	B	B	B				
	71B14	70	85	105											
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B	
	63B14	60	75	90											
063/130	90B5	130	165	200	24										
	90B14	95	115	140											
	80B5	130	165	200	19	B	B	B	B	B	B				
	80B14	80	100	120											
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B	
	71B14	70	85	105											
	63B5	95	115	140	11								BS	BS	BS

N.B. Las áreas grises indican los tamaños de los motores aplicables

N.B. As áreas evidenciadas em cinza indicam a aplicabilidade da correspondente grandeza do motor.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

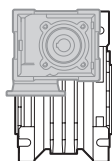
B/BS = Bucha de redução em aço

B/BS = Metal shaft sleeve

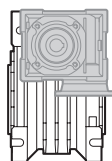
NOTA: la posición de montaje no está disponible para CMM 040/090.

(*) NOTA : posição de montagem não disponível para CMM 040/090.

NOTE: assembly position not available for CMM 040/090.



UC1



UC2

CMM	IEC	N	M	P	D	i ₁								
						7.5	10	15	20	25	30	40	50	60
030/040 030/050	63B14	60	75	90	11									
	56B5	80	100	120	9	B	B	B	B	B	B	B	B	
	56B14	50	65	80										
030/063	63B5	95	115	140	11									
	63B14	60	75	90										
	56B5	80	100	120	9	B	B	B	B	B	B	B		
	56B14	50	65	80										
040/063 040/070 040/075 040/090	71B5	110	130	160	14									
	71B14	70	85	105										
	63B5	95	115	140	11	B	B	B	B	B	B	B		
	63B14	60	75	90										
	56B5	80	100	120	9	BS	BS	BS	BS	BS	BS	BS	B	B
	56B14	50	65	80										
050/110	80B14	80	100	120	19									
	71B5	110	130	160	14	B	B	B	B	B	B			
	71B14	70	85	105										
	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	B	B	B
	63B14	60	75	90										
063/130	90B14	95	115	140	24									
	80B14	80	100	120	19	B	B	B	B	B	B			
	71B5	110	130	160	14	BS	BS	BS	BS	BS	BS	B	B	B
	71B14	70	85	105										
	63B5	95	115	140	11							BS	BS	BS

N.B. Las áreas grises indican los tamaños de los motores aplicables

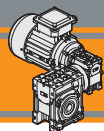
N.B. As áreas evidenciadas em cinza indicam a aplicabilidade da correspondente grandeza do motor.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

B/BS = Bucha de redução em aço

B/BS = Metal shaft sleeve


CMM

Motorreductores sinfín corona de doble reducción
 Motores de rosca sem fim combinados
 Double reduction wormgearmotors

60 Hz
Dimensiones
Dimensões
Dimensions

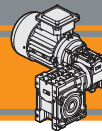
CMM..U - CMM..F...																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{h8}	N1	N2
026/026 (D11)	45	70	11	83	22	47.5	50	35	34	26	26	34	42	55	45	22.5	21
026/026			12														
026/026 (D14)			14														
026/030	54	80	14	97	32	47.5	63	40	34	30	26	44	56	65	55	29	21
026/040	70	100	18	121.5	43	47.5	78	50	34	40	26	60	71	75	60	36.5	21
026/050	80	120	25	144	49	47.5	92	60	34	50	26	70	85	85	70	43.5	21

CMM..U - CMM..F...														
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
026/026 (D11)	6	—	37	49	49	5	15	21	76	7	—	4	12.8	1.6
026/026												4	13.8	
026/026 (D14)												5	16.2	
026/030	6.5	75	44	57	49	5.5	22	27	81	M6x10(n.4)	90°	5	16.3	2.4
026/040	6.5	87	55	71.5	49	6.5	26	35	91.5	M6x8(n.4)	45°	6	20.8	3.5
026/050	8.5	98	64	84	49	7	30	40	100.5	M8x10(n.4)	45°	8	28.3	5.0

	CMM..F									CMM..F28									CMM..F30								
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ		
026/026 (D11) 026/026 026/026 (D14)	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	44	6.5	5	56-64	40	6.5	70	60	48	6.5	5	68	50	6.5	80	70		

	CMM..F									CMM..FB									CMM..FL								
	a1	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ		
026/026	45°	45	6	4.5	55-69	40	6.5(n.4)	75	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
026/030	45°	54.5	6	4	68	50	6.5(n.4)	80	70								—										
026/040	45°	67	7.5	4.5	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95		
026/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110		

CMMIS						
	A	B	D1 _{j6}	E	F	M
026/026 026/030 026/040 026/050	45	20	9	M4	3	10.2

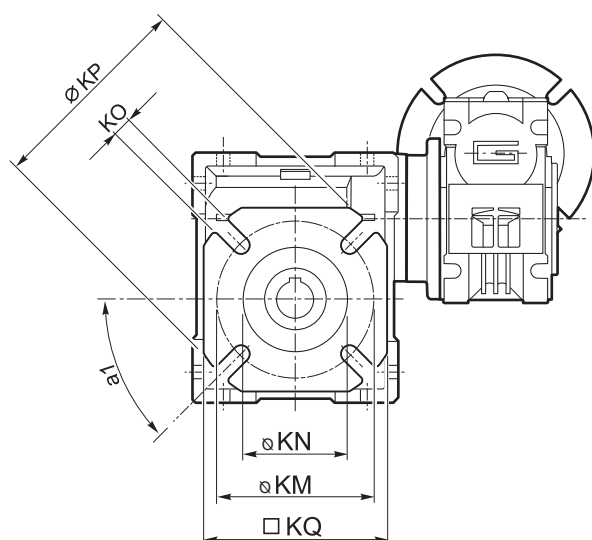
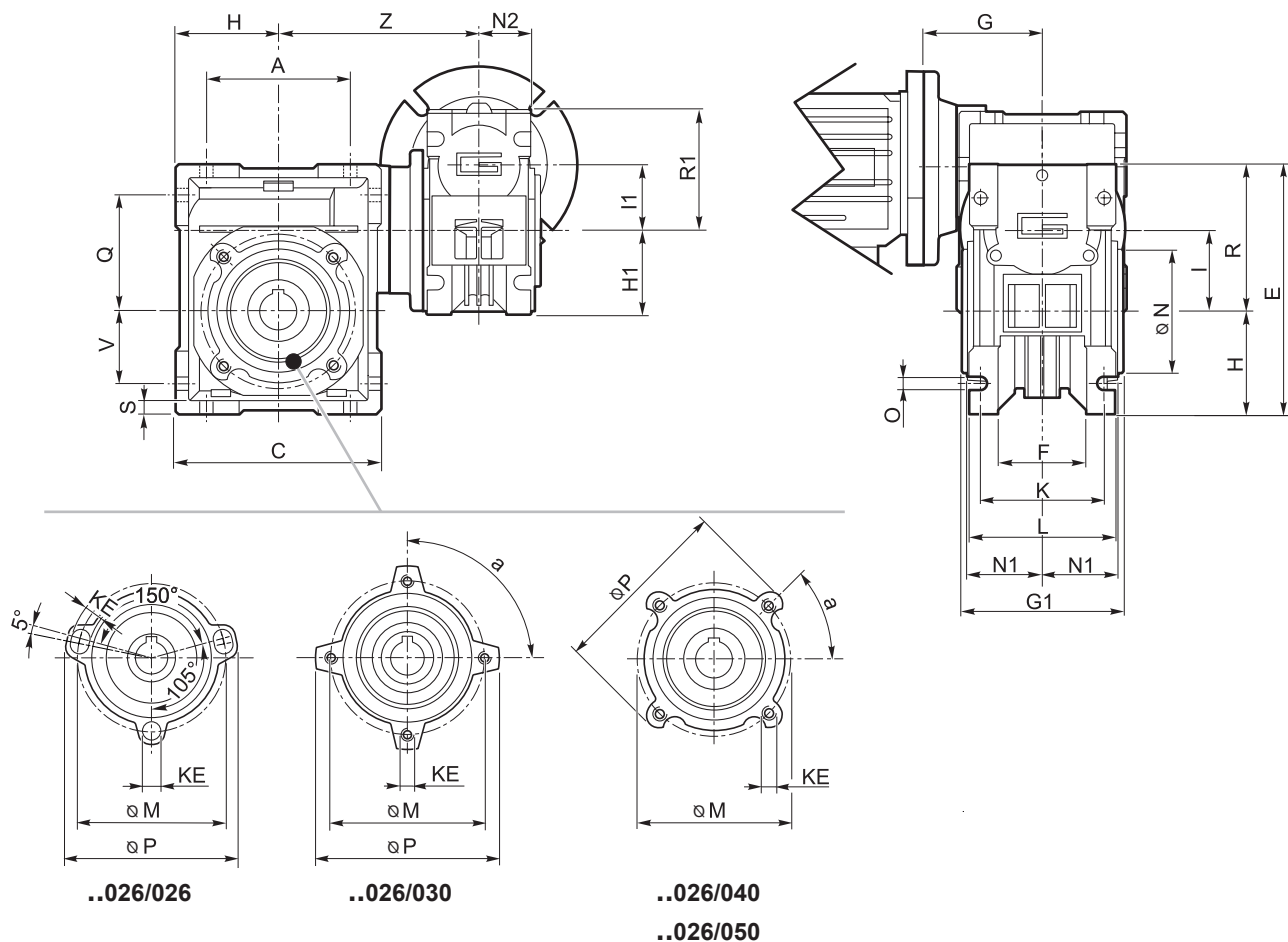


Dimensiones

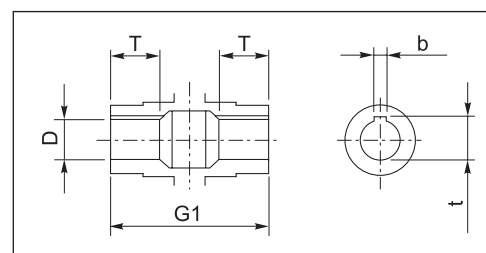
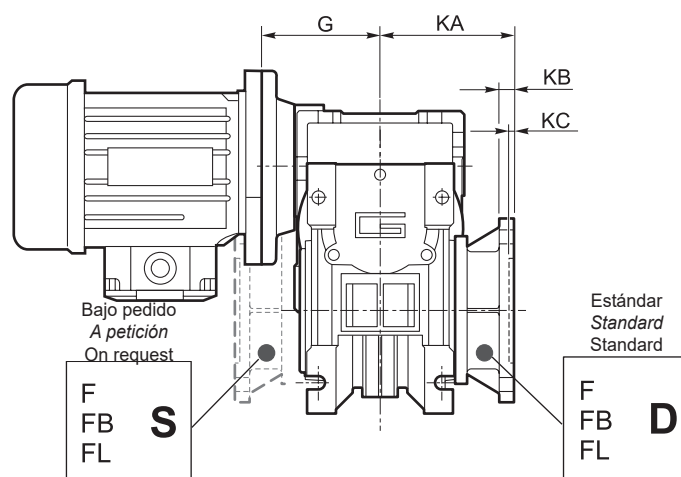
Dimensões

Dimensions

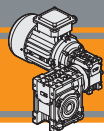
CMM026/..U



CMM026/026 F - F28 - F30
 CMM026/..F - FB - FL



Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft


CMM

Motorreductores sinfín corona de doble reducción
Motoredutores de rosca sem fim combinados
Double reduction wormgearmotors

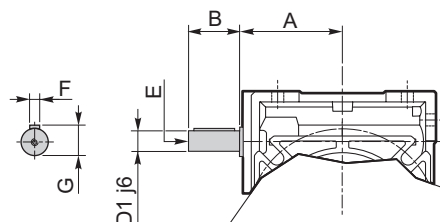
60 Hz
Dimensiones
Dimensões
Dimensions

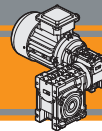
CMM.. - CMM..F - CMM..FB - CMM..FL																	
	A	C	D _{H8}	E	F	G	G1	H	H1	I	I1	K	L	M	N _{H8}	N1	N2
030/040	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
030/050	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
030/063	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
040/063	100	144	25	174	67	55	112	72	50	63	40	85	104	95	80	53	36.5
040/070	110	160	28	195	64	70	120	80	50	70	40	90	104	115	95	57	36.5
040/075	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
040/090	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
050/110	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5
063/130	200	292.5	45	335	—	95	170	147.5	72	130	63	120	155	215	180	81	53

	CMM.. - CMM..F - CMM..FB - CMM..FL													
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg
030/040	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8 (21.8)	3.9
030/050	8.5	98	64	84	57	7	30	40	132	M8x14(n.4)	45°	8	28.3 (27.3)	5.0
030/063	8.5	110	80	102	57	8	36	50	145	M8x10(n.8)	45°	8	28.3	7.5
040/063	8.5	110	80	102	71.5	8	36	50	155.5	M8x10(n.8)	45°	8	28.3	9.2
040/070	9	130	91	115	71.5	9	40	55	160	M8x14(n.8)	45°	8	31.3	10.5
040/075	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	12.0
040/090	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	15.6
050/110	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	30.2
063/130	16	250	140	187.5	102	15	60	100	245	M12x21(n.8)	45°	14	48.8	55.0

	a1	CMM..F								CMM..FB								CMM..FL							
		KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ	KA	KB	KC	KM	KN H8	KO	KP	KQ
030/040	45°	67	7.5	4	80-95	60	9(n.4)	110	95	80	8.5	5	115-125	95	9.5(n.4)	140	112	97	7.5	4.5	80-95	60	9(n.4)	110	95
030/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	132	120	9	5	90-110	70	11(n.4)	125	110
030/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
040/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	160	112	10	6	150-160	115	11(n.4)	180	142
040/070	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
040/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
050/110	45°	131	15	6	230	170	14(n.8)	280	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
063/130	22.5°	140	15	6	255	180	16(n.8)	320	290	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

CMMIS						
	A	B	D1 _{j6}	E	F	M
030/040 030/050 030/063	51	20	9	M4	3	10.2
040/063 040/070 040/075 040/090	66	23	11	M5	4	12.5
050/110	76	30	14	M6	5	16
063/130	94.5	40	19	M6	6	21.5



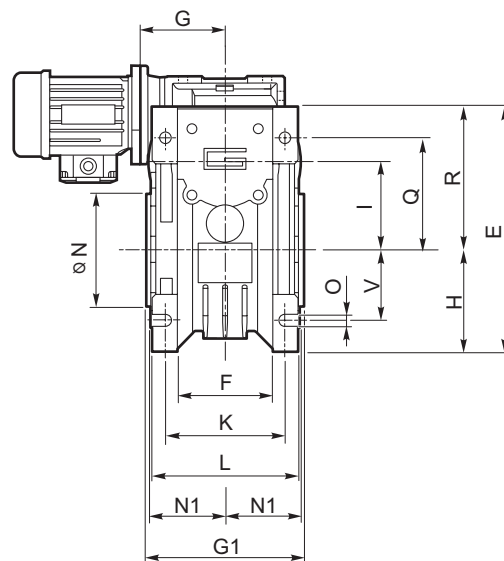
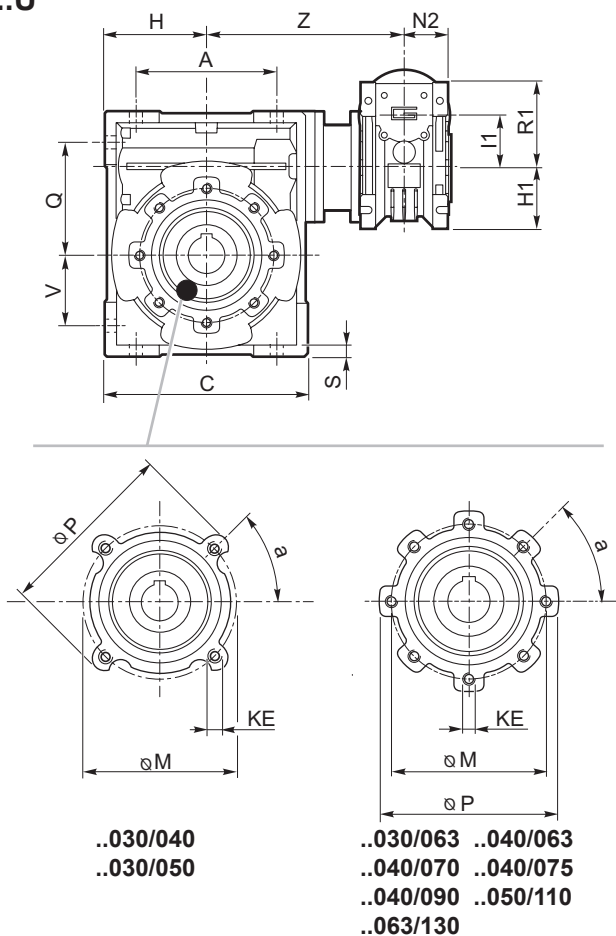


Dimensiones

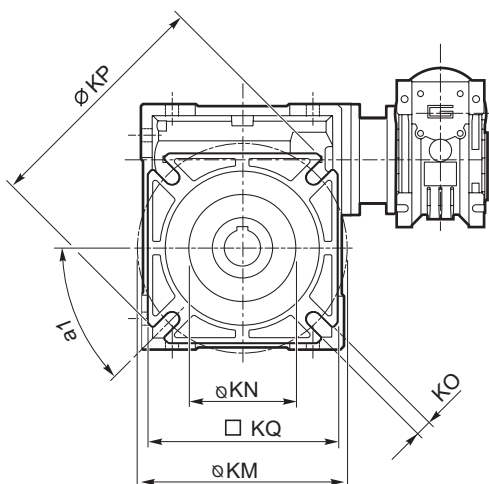
Dimensões

Dimensions

CMM..U



CMM



CMM..F (../030 - ../090)

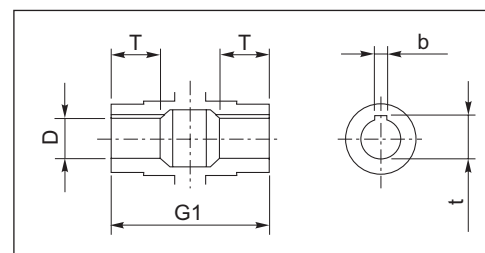
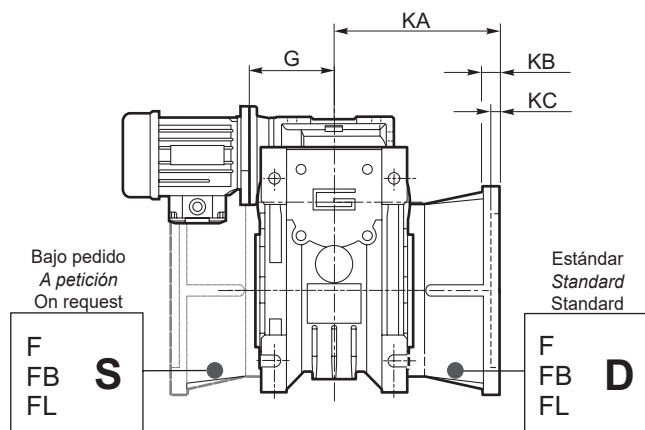
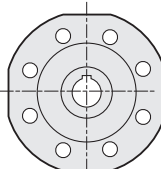
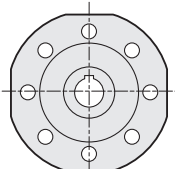
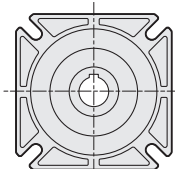
CMM..FB (../040 - ../063)

CMM..FL (../040 - ../063)

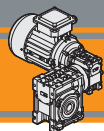
CMM..F

(../110

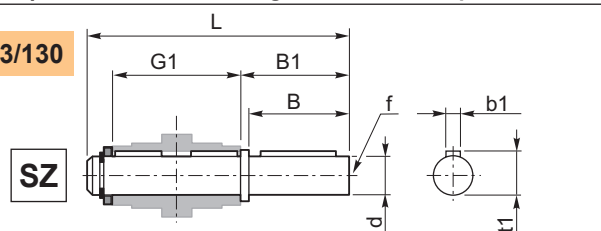
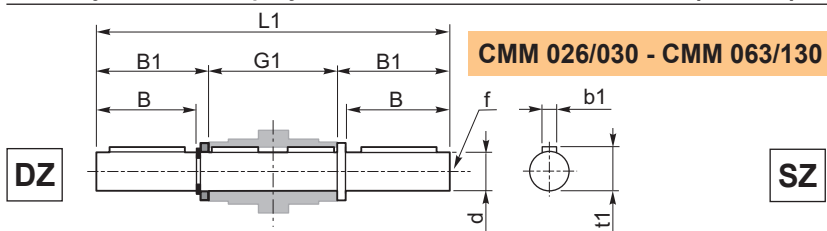
../130)



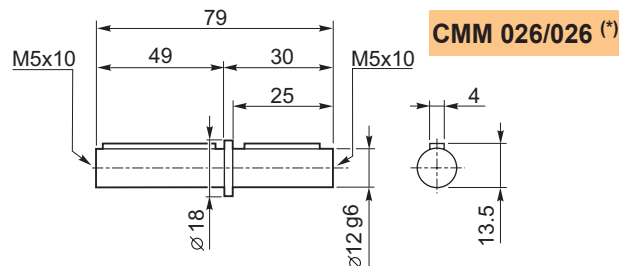
Eje de salida hueco
 Eixo saída vazado
 Hollow output shaft

**CMM**

Motorreductores sinfín corona de doble reducción
 Motores de rosca sem fim combinados
 Double reduction wormgearmotors

60 Hz**Accesorios****Acessórios****Accessories****Eje de salida simple y doble****Eixo lenta simples e dupla****Single and double output shaft**

CMM	d _{h7}	B	B1	G1	L	L1	f	b1	t1
026/030	14	30	32.5	63	102	128	M6	5	16
026/040	18	40	43	78	128	164	M6	6	20.5
026/050	25	50	53.5	92	153	199	M10	8	28
030/063	25	50	53.5	112	173	219	M10	8	28
040/070	28	60	63.5	120	192	247	M10	8	31
040/075	28	60	63.5	120	192	247	M10	8	31
040/090	35	80	84.5	140	234	309	M12	10	38
050/110	42	80	84.5	155	249	324	M16	12	45
063/130	45	80	85	170	265	340	M16	14	48.5



(*)

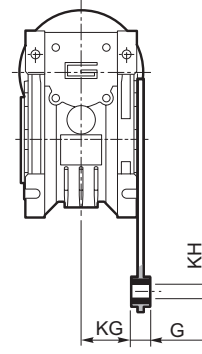
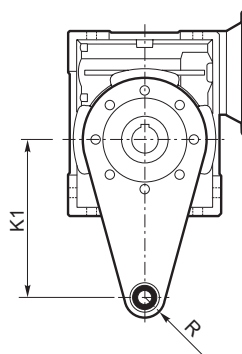
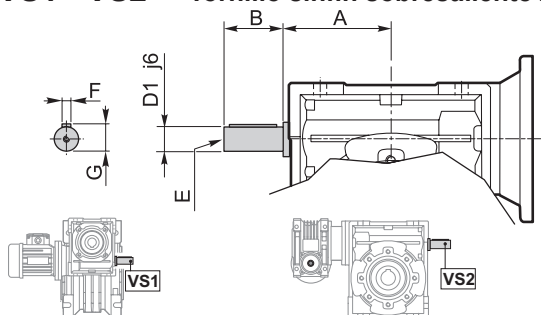
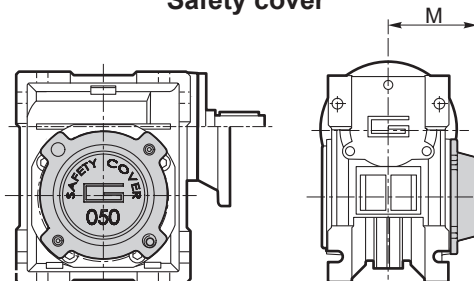
Nota: disponible solo para eje de salida hueco Ø12

Note: disponível somente para eixo de saída oco de Ø12

Note: available for output hollow shaft Ø12 only

Brazo de reacción**Braço de reação****Torque arm**

CMM	K1	G	KG	KH	R
026/030	85	14	23	8	15
026/040	100	14	31	10	18
026/050	100	14	38	10	18
030/063	150	14	47.5	10	18
040/070	200	25	46.5	20	30
040/075	200	25	46.5	20	30
040/090	200	25	56.5	20	30
050/110	250	30	62	25	35
063/130	250	30	69	25	35

**Opciones****Opções****Options****VS1 - VS2 - Tornillo sinfín sobresaliente / Parafuso saliente / Extended input shaft****SC - Cubierta de seguridad / Tampa de proteção / Safety cover**

CMM	VS1						VS2					
	A	B	D ₁ j6	E	F	G	A	B	D ₁ j6	E	F	G
026/030	—	—	—	—	—	—	45	20	9	M4	3	10.2
026/040	—	—	—	—	—	—	53	23	11	M5	4	12.5
026/050	—	—	—	—	—	—	64	30	14	M6	5	16
030/040	45	20	9	M4	3	10.2	53	23	11	M5	4	12.5
030/050	45	20	9	M4	3	10.2	64	30	14	M6	5	16
030/063	45	20	9	M4	3	10.2	75	40	19	M6	6	21.5
040/063	53	23	11	M5	4	12.5	75	40	19	M6	6	21.5
040/070	53	23	11	M5	4	12.5	84	40	19	M6	6	21.5
040/075	53	23	11	M5	4	12.5	90	50	24	M8	8	27
040/090	53	23	11	M5	4	12.5	108	50	24	M8	8	27
050/110	64	30	14	M6	5	16	135	60	28	M10	8	31
063/130	75	40	19	M6	6	21.5	—	—	—	—	—	—

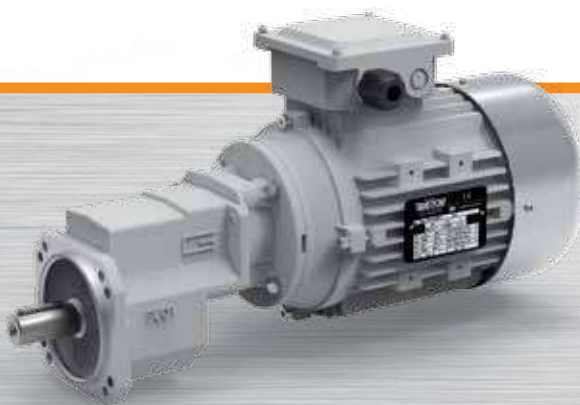
	CM								
	30	40	50	63	70	75	90	110	130
M	47	54.5	62.5	73	75	79	94	102	117

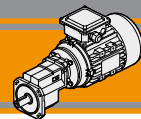
Construido bajo pedido
 Fabricado sob encomenda
 Built on request

Motorreductores helicoidal
de etapa única

Motoredutores com engrenagens
cilíndricas monoestágio

Single stage helical gearmotors



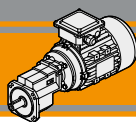


Índice	Índice	Index	Pag. Page
Características técnicas	<i>Características técnicas</i>	Technical features	12
Clasificación	<i>Designação</i>	Classification	12
Sentidos de rotación	<i>Sentidos de rotação</i>	Direction of rotation	12
Lubricación	<i>Lubrificação</i>	Lubrication	13
Cargas radiales	<i>Cargas radiais</i>	Radial loads	13
Nomenclatura	<i>Simbologia</i>	Symbols	13
Datos técnicos	<i>Dados técnicos</i>	Technical data	13
<i>Motores aplicables</i>	<i>Motores aplicáveis</i>	IEC Motor adapters	14
Dimensiones	<i>Dimensões</i>	Dimensions	14

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PU

Motorreductores helicoidal de etapa única Motoredutores com engrenagens cilíndricas mono-estágio Single stage helical gearmotors

60 Hz

Características técnicas

El reductor helicoidal de etapa única PU tiene las siguientes características principales:

- Carcasas y bridas de entrada y salida de aluminio fundido a presión;
- Engranajes helicoidales rectificadas
- Aceite de lubricación sintética de larga duración.

Características técnicas

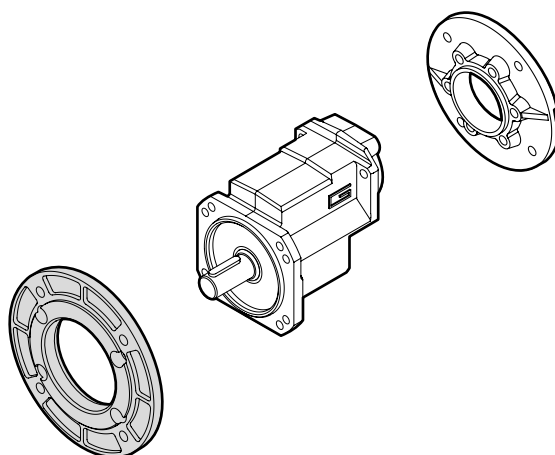
Os motoredutores mono estágio de engrenagens helicoidais da série PU têm como principais características:

- Caixa de entrada de flange e flange de saída fundidos sob pressão;
- Engrenagens retificadas
- Lubrificação permanente com óleo sintético.

Technical features

PU single stage helical gearmotor range has the following main features:

- Die-cast aluminum housings, input and output flanges;
- Ground-hardened helical gears;
- Permanent synthetic oil long-life lubrication.

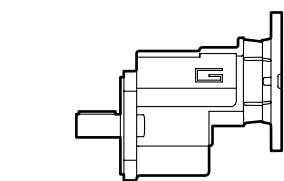


Clasificación

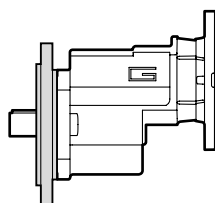
Designação

Classification

REDUCTOR / REDUTOR / GEARBOX							MOTOR / MOTOR / MOTOR					
PU	01	FT1	5.70	71	B5	O3	0.25kW	4p	3ph	230/400V	50Hz	T1
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	IEC 	Forma constructiva Forma construtiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Potencia Potência Power	Polos Pólos Poles	Fases Fases Phases	Tensión Tensão Voltage	Frecuencia Frequência Frequency	Posición caja de bornes Pos. Conexão Terminal box pos.
PU	01	U FT1 FT2 FT3	5.70 8.57	63 71 80	B5 B14		Veja tabelas Véase tablas see tables	2p 4p 6p 8p	1ph 3ph	230V 230/400V	50Hz 60Hz	T1 (Std)



U

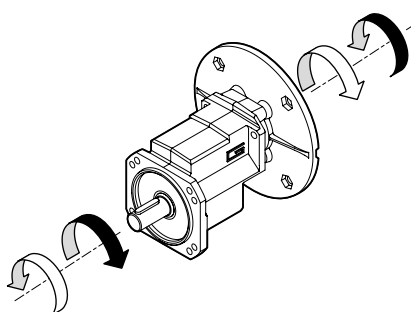


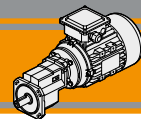
FT..

Sentidos de rotación

Sentidos de rotação

Direction of rotation





Lubricación

Todos los motoredutores PU son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

Lubrificação

Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

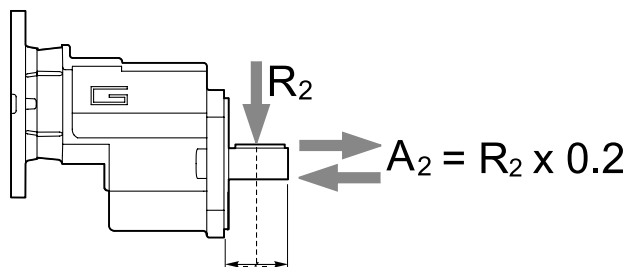
Lubrication

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use PU range in all mounting positions and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads



n ₂ [min ⁻¹]	R ₂ [N]
	PU 01
500	643
400	693
300	763
250	810
200	873
150	961
100	1100

Nomenclatura

Simbologia

Legend

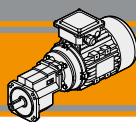
n ₁ [rpm]	Velocidad de entrada / Velocidade na entrada / Input speed
n ₂ [rpm]	Velocidad de salida / Velocidade na saída / Output speed
i	Relación de reducción / Relação de redução / Ratio
P ₁ [kW]	Potencia en la entrada / Potência da entrada / Input power
M ₂ [Nm]	Par en la salida en función de P ₁ / Torque na saída em função de P ₁ / Output torque referred to P ₁
sf	Factor de servicio / Fator de serviço / Service factor
R ₂ [N]	Carga radial admisible en la salida / Carga radial admissível na saída / Maximum output radial load
A ₂ [N]	Carga axial admisible en la salida / Carga axial admissível na saída / Maximum output axial load

Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.12							0.55						
(0.16 hp)	307	3.6	12.8	5.70	PU01	B5/B14	(0.75 hp)	307	17	2.8	5.70	PU01	B5/B14
	204	5.4	6.8	8.57	PU01	B5/B14		204	25	1.5	8.57	PU01	B5/B14
63A4 (1750 min ⁻¹)							71B4 (1750 min ⁻¹)						
0.18							0.75						
(0.25 hp)	307	5.4	8.6	5.70	PU01	B5/B14	(1.0 hp)	307	23	2.1	5.70	PU01	B5/B14
	204	8.2	4.6	8.57	PU01	B5/B14		204	34	1.1	8.57	PU01	B5/B14
63B4 (1750 min ⁻¹)							80A4 (1750 min ⁻¹)						
0.25							1.1						
(0.33 hp)	307	8	6.2	5.70	PU01	B5/B14	(1.5 hp)	307	33	1.4	5.70	PU01	B5/B14
	204	11	3.3	8.57	PU01	B5/B14							
63C4 (1750 min ⁻¹)							80B4 (1750 min ⁻¹)						
0.37							1.5						
(0.50 hp)	307	11	4.2	5.70	PU01	B5/B14	(2.0 hp)	307	45	1.0	5.70	PU01	B5/B14
	204	17	2.2	8.57	PU01	B5/B14							
71A4 (1750 min ⁻¹)							90A4 (1750 min ⁻¹)						



PU

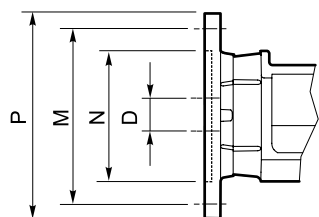
Motorreductores helicoidal de etapa única
Motoredutores com engrenagens cilíndricas mono-estágio
Single stage helical gearmotors

60 Hz

Motores aplicables

Motores aplicáveis

IEC Motor adapters



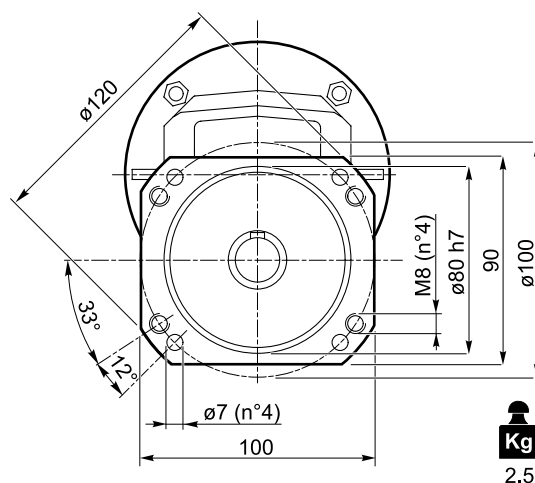
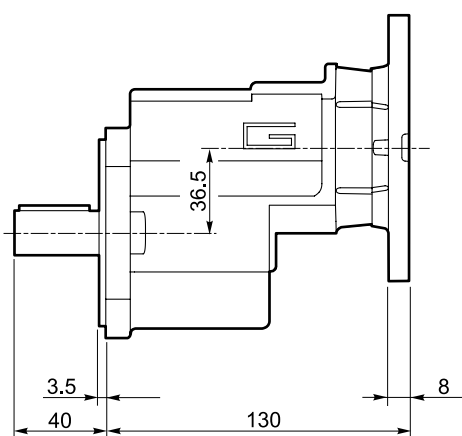
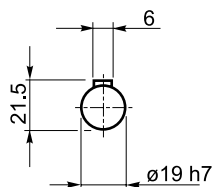
	IEC	N	M	P	D	i (Relación de reducción / <i>Rapporto</i> / Ratio)	
						5.70	8.57
PU01	80 B5	130	165	200	19		
	80 B14	80	100	120	19		
	71 B5	110	130	160	14		
	71 B14	70	85	105	14	B	
	63 B5	95	115	140	11		
	63 B14	60	75	90	11	BS	

Dimensiones

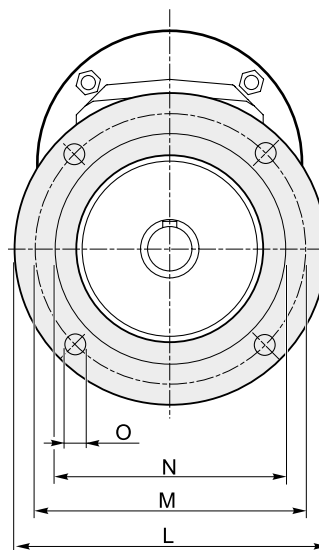
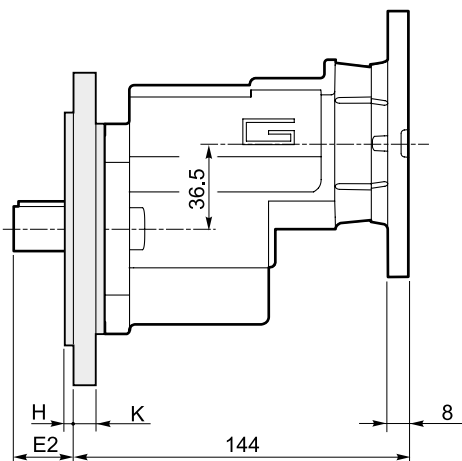
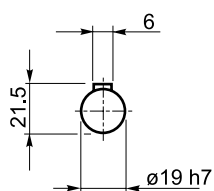
Dimensões

Dimensions

PU01 U

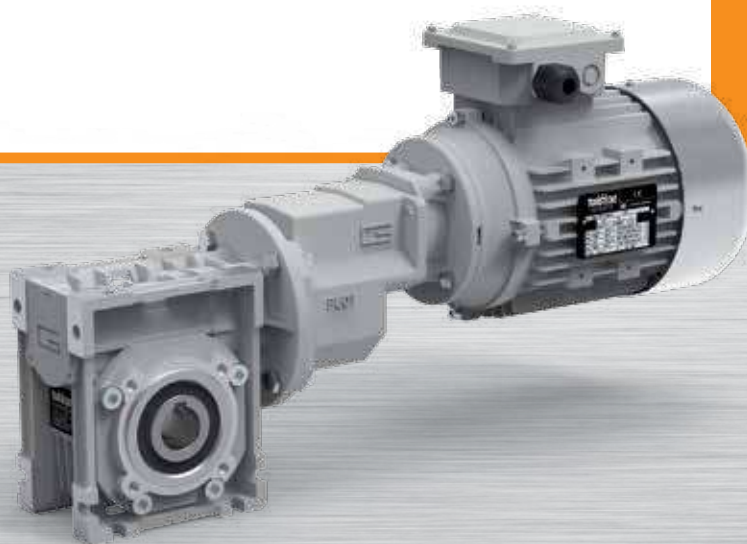


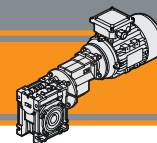
PU01 FT..



		Versione / Version / Version							Peso / Peso / Weight [kg]
PU01		E ₂	H	K	L	M	N f7	O	
	FT1	26	3	10	140	115	95	M8	0.3
	FT2	26	3.5	10	160	130	110	9	0.4
	FT3	26	3.5	10	200	165	130	11	0.5

Motorreductores sinfín
corona con pre-reductor PU
**Motoredutores de rosca
sem fim com pré-estágio PU**
PU Pre-stage wormgearmotors



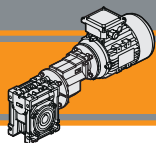


Índice	Índice	Index	Pag. Pág. Page
Características técnicas	<i>Características técnicas</i>	Technical features	L2
Clasificación	<i>Designação</i>	Classification	L2
Sentidos de rotación	<i>Sentidos de rotação</i>	Direction of rotation	L3
Nomenclatura	<i>Simbologia</i>	Symbols	L3
Lubricación	<i>Lubrificação</i>	Lubrication	L4
Cargas radiales	<i>Cargas radiais</i>	Radial loads	L4
<i>Motores aplicables</i>	Motores aplicáveis	IEC Motor adapters	L5
Datos técnicos	<i>Dados técnicos</i>	Technical data	L6
Dimensiones	<i>Dimensões</i>	Dimensions	L10
Accesorios	<i>Acessórios</i>	Accessories	L12
Opciones	<i>Opções</i>	Options	L12

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CMPU

Motorreductores sinfín corona con pre-reductor PU
 Motoredutores de rosca sem fim com pré-estágio PU
 PU Pre-stage wormgearmotors

60 Hz

Características técnicas

El alto grado de modularidad es una característica de diseño del motorreductor sinfín corona con pre-reductor CMPU las cuales varían con una amplia selección de kits de entrada y salida. Las principales características de gama CMPU son:

- Carcasa de aluminio fundido a presión;
- Doble rodamiento de rodillos cónicos en el tamaño 090;
- Aceite de lubricación sintética larga vida.

Características técnicas

A alta modularidade distingue os motoredutores rosca sem-fim da série CMPU: os diferentes kits de entrada e saída torná-los extremamente versátil. As principais características da série CMPU são:

- Caixa de alumínio fundido sob pressão;
- O tamanho 090 é fornecido com rolamentos de rolos cônicos junto a rosca-sem fim;
- Lubrificação permanente com óleo sintético.

Technical features

The high degree of modularity is a design feature of CMPU wormgearmotors range thanks to a wide selection of input and output kits. Main features of CMPU range are:

- Die cast aluminium housing;
- Double taper roller bearing on size 090;
- Permanent synthetic oil long life lubrication.

Clasificación

Designação

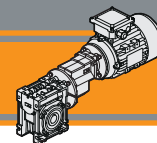
Classification

REDUCTOR / REDUTOR / GEARBOX											
CMPU	01/050	U	57	71	B14	SZDX	BRSX	90	P4	M1	VS
Tipo Tipo Type	Tamaño Tamanho Size	Versión Versão Version	Relación de reducción Rapporto Ratio	IEC 	Forma constructiva Forma construtiva Version	Ø Eje de salida Ø Eixo saída Ø Output shaft	Brazo de reacción Braço de reação Torque arm	Ángulo Ângulo Angle	Pos. de montaje del pre-reductor Posição de montagem do pré-estágio Pre stage mounting position	Posición de montaje Pos. de montagem Mounting position	Opción Opções Options
	01/050 01/063 01/070 01/075 01/090	U FD FS FLD FLS FBD FBS	Vedere tabella See tables	63 71 80	B5 B14	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	P1 P2 P3 (standard) P4	M1 (B3) M2 (V6) M3 (B8) M4 (V5) M6 (B6) M5 (B7)	VS
Versione Version Version U FD FS FLD FLS FBD FBS			Ø Eje de salida Ø Eixo saída Ø Output shaft SZDX SZSX DZ			Brazo de reacción Braço de reação Torque arm BRDX BRSX			Ángulo Ângulo Angle 90° 90° 180° 270° 270° 0°		

60 Hz

Motorreductores sinfin corona con pre-reductor PU
 Motoredutores de rosca sem fim com pré-estágio PU
 PU Pre-stage wormgearmotors

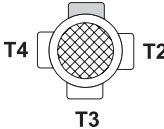
CMPU



Clasificación

Designação

Classification

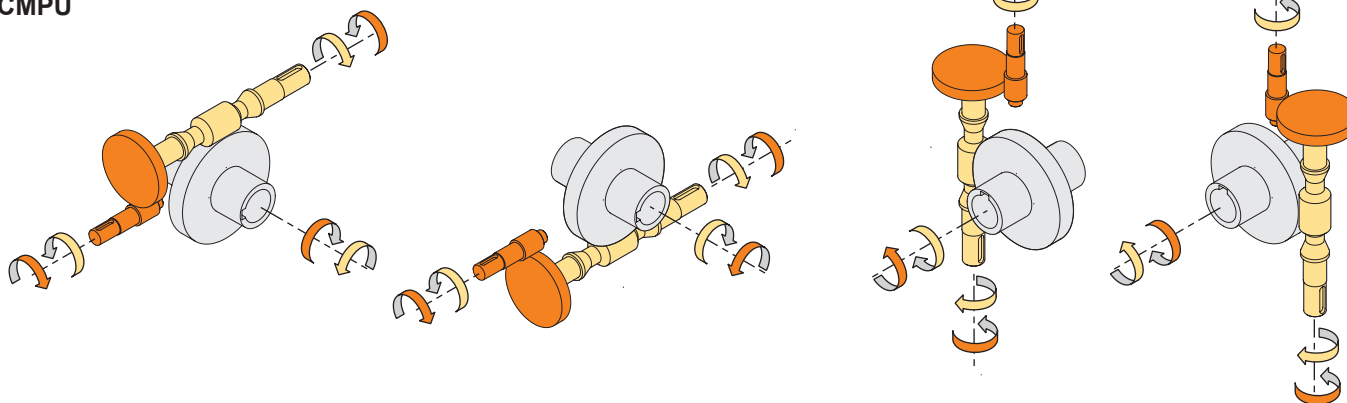
MOTOR / MOTOR / MOTOR					
0.75kW	4p	3ph	230/400V	50Hz	T1
Potencia <i>Potência</i> Power Veja tabelas <i>Véase tablas</i> see tables	Polos <i>Pólos</i> Poles 2p 4p 6p 8p	Fases <i>Fases</i> Phases 1ph 3ph	Tensión <i>Tensão</i> Voltage 230V 230/400V	Frecuencia <i>Frequência</i> Frequency 50Hz 60Hz	Posición caja de bornes <i>Pos. Conexão</i> Terminal box pos. T1 (Std) 

Sentidos de rotación

Sentidos de rotação

Direction of rotation

CMPU



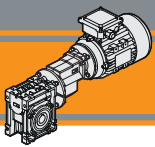
CMPU

Nomenclatura

Simbologia

Legend

n_1	[rpm]	Velocidad de entrada / <i>Velocidade na entrada</i> / Input speed
n_2	[rpm]	Velocidad de salida / <i>Velocidade na saída</i> / Output speed
i		Relación de reducción / <i>Relação de redução</i> / Ratio
P_1	[kW]	Potencia en la entrada / <i>Potência da entrada</i> / Input power
M_2	[Nm]	Par en la salida en función de P_1 / <i>Torque na saída em função de P_1</i> / Output torque referred to P_1
sf		Factor de servicio / <i>Fator de serviço</i> / Service factor
R_2	[N]	Carga radial admisible en la salida / <i>Carga radial admissível na saída</i> / Maximum output radial load
A_2	[N]	Carga axial admisible en la salida / <i>Carga axial admissível na saída</i> / Maximum output axial load



CMPU

Motorreductores sin fin corona con pre-reductor PU
 Motoredutores de rosca sem fim com pré-estágio PU
 PU Pre-stage wormgearmotors

60 Hz

Lubricación

Lubrificação

Lubrication

Todos los motoredutores son previamente lubricados con aceite sintético con grado de viscosidad 320, por lo tanto, pueden ser instalados en cualquier posición de montaje y no requieren mantenimiento.

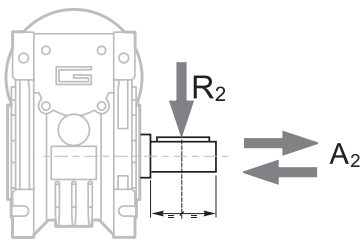
Todos os motoredutores são fornecidos completos de lubrificante sintético de viscosidade 320, portanto, podem ser instalados em qualquer posição de montagem e não necessitam de manutenção.

Permanent synthetic oil long-life lubrication (viscosity grade 320) makes it possible to use the gearmotors in all mounting positions; for this reason they can be installed in any assembly position and do not require maintenance.

Cargas radiales

Cargas radiais

Radial loads



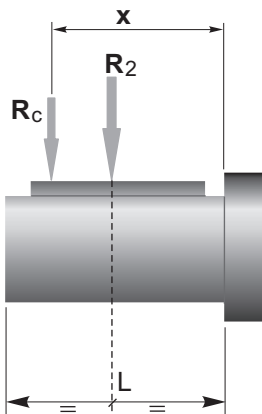
$$A_2 = R_2 \times 0.2$$

n ₂ [min ⁻¹]	R ₂ [N]				
	CMPU 01/050	CMPU 01/063	CMPU 01/070	CMPU 01/075	CMPU 01/090
47	2805	3874	4141	4475	5009
35	3095	4273	4568	4937	5526
28	3334	4603	4921	5318	5953
23	3559	4915	5254	5678	6356
18	3862	5334	5702	6162	6897
14	4200	5800	6200	6700	7500

Cuando la carga radial no se aplica en el punto medio del eje, es necesario calcular la carga efectiva a través la siguiente fórmula:

Quando a carga radial resultante não é aplicada na linha mediana da eixo, é preciso calcular aquela efetiva com a seguinte fórmula:

When the resulting radial load is not applied on the centre line of the shaft it is necessary to calculate the effective load with the following formula:

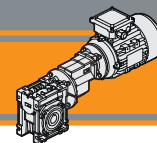


	CMPU				
	01/050	01/063	01/070	01/075	01/090
a	101	120	122	131	182
b	76	95	92	101	122
R _{2MAX}	4200	5800	6200	6700	7500

$$R_c = \frac{R_2 \cdot a}{(b + x)} \leq R_{2MAX}$$

$$R \leq R_c$$

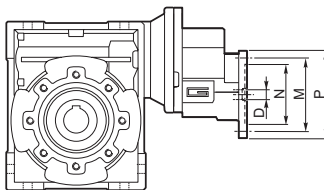
a, b = valores dados en la tabla
 a, b = valores referidos na tabela
 a, b = values given in the table



Motores Aplicables IEC

Motores aplicáveis

IEC Motor adapters



CMPU	IEC	N	M	P	D	i (i ₁ x i ₂)										
						28.5 (5,7x5)	42.75 (5,7x7,5)	57 (5,7x10)	64.28 (8,57x7,5)	85.5 (5,7x15)	85.7 (8,57x10)	114 (5,7x20)	128.55 (8,57x15)	142.5 (5,7x25)	171 (5,7x30)	214.25 (8,57x25)
01/050	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90												
	71B5	110	130	160	14	B	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105												
	80B5	130	165	200	19											
80B14	80	100	120													
01/063	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90												
	71B5	110	130	160	14	B	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105												
	80B5	130	165	200	19											
80B14	80	100	120													
01/070	63B5	95	115	140	11	-	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90												
	71B5	110	130	160	14	-	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105												
	80B5	130	165	200	19	-										
80B14	80	100	120													
01/075	63B5	95	115	140	11	-	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90												
	71B5	110	130	160	14	-	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105												
	80B5	130	165	200	19	-										
80B14	80	100	120													
01/090	63B5	95	115	140	11	-	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90												
	71B5	110	130	160	14	-	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105												
	80B5	130	165	200	19	-										
80B14	80	100	120													

CMPU	IEC	N	M	P	D	i (i ₁ x i ₂)									
						228 (5,7x40)	257.1 (8,57x30)	285 (5,7x50)	342.8 (8,57x40)	428.5 (8,57x50)	456 (5,7x80)	514.2 (8,57x60)	570 (5,7x100)	685.6 (8,57x80)	857 (8,57x100)
01/050	63B5	95	115	140	11		BS								
	63B14	60	75	90	11		BS								
	71B5	110	130	160	14		B								
	71B14	70	85	105	14		B								
	80B5	130	165	200	19										
01/063	63B5	95	115	140	11	BS	BS	BS	BS	BS		BS			
	63B14	60	75	90	11	BS	BS	BS	BS	BS		BS			
	71B5	110	130	160	14	B	B	B	B	B		B			
	71B14	70	85	105	14	B	B	B	B	B		B			
	80B5	130	165	200	19										
01/070	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	71B5	110	130	160	14	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105	14	B	B	B	B	B	B	B	B	B	B
	80B5	130	165	200	19										
01/075	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	71B5	110	130	160	14	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105	14	B	B	B	B	B	B	B	B	B	B
	80B5	130	165	200	19										
01/090	63B5	95	115	140	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	63B14	60	75	90	11	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
	71B5	110	130	160	14	B	B	B	B	B	B	B	B	B	B
	71B14	70	85	105	14	B	B	B	B	B	B	B	B	B	B
	80B5	130	165	200	19										

N.B. Las áreas grises indican los tamaños de los motores aplicables

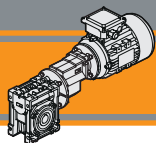
N.B. As áreas evidenciadas em cinza indicam a aplicabilidade da correspondente grandeza do motor.

N.B. Grey areas indicate motor inputs available on each size of unit.

B/BS = Casquillo de reducción en acero

B/BS = Bucha de redução em aço

B/BS = Metal shaft sleeve

**CMPU**

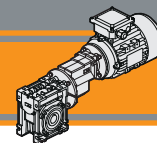
Motorreductores sinfin corona con pre-reductor PU
 Motoredutores de rosca sem fim com pre-estágio PU
 PU Pre-stage wormgearmotors

60 Hz**Datos técnicos****Dados técnicos****Technical data**

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.12							0.18						
(0.16 hp)	61	15	10.6	28.50	CMPU01/050	B5/B14	(0.25 hp)	15	75	1.8	114.00	CMPU01/063	B5/B14
	41	22	7.2	42.75		B5/B14		14	89	1.8	128.55		B5/B14
63A4	31	28	5.6	57.00		B5/B14	63B4	12	88	1.4	142.50		B5/B14
(1750 min ⁻¹)	27	33	4.8	64.28		B5/B14	(1750 min ⁻¹)	10	95	1.7	171.00		B5/B14
	20	40	4.1	85.50		B5/B14		8.2	132	0.9	214.25		B5/B14
	20	42	3.7	85.70		B5/B14		6.8	144	1.1	257.10		B5/B14
	15	50	2.8	114.00		B5/B14							
	14	59	2.7	128.55		B5/B14		15	74	3.5	114.00		B5/B14
	12	59	2.1	142.50		B5/B14		14	88	3.4	128.55		B5/B14
	10	64	2.5	171.00		B5/B14		12	86	2.6	142.50		B5/B14
	8.2	88	1.4	214.25	CMPU01/063	B5/B14		10	99	3.1	171.00		B5/B14
	6.8	96	1.7	257.10		B5/B14		8.2	130	1.8	214.25		B5/B14
								7.7	119	2.2	228.00		B5/B14
	14	59	5.2	128.55		B5/B14		6.8	148	2.1	257.10		B5/B14
	12	58	4.0	142.50		B5/B14		6.1	137	1.7	285.00		B5/B14
	10	66	4.7	171.00		B5/B14		5.1	178	1.5	342.80		B5/B14
	8.2	87	2.6	214.25		B5/B14		4.1	206	1.1	428.50		B5/B14
	7.7	79	3.3	228.00		B5/B14		3.4	228	0.9	514.20		B5/B14
	6.8	99	3.1	257.10		B5/B14							
	6.1	91	2.5	285.00		B5/B14		8.2	134	2.5	214.25	CMPU01/070	B5/B14
	5.1	119	2.2	342.80	CMPU01/070	B5/B14		7.7	119	3.2	228.00		B5/B14
	4.1	137	1.7	428.50		B5/B14		6.8	148	3.1	257.10		B5/B14
	3.4	152	1.4	514.20		B5/B14		6.1	137	2.4	285.00		B5/B14
								5.1	178	2.1	342.80		B5/B14
	6.1	91	3.7	285.00		B5/B14		4.1	206	1.6	428.50		B5/B14
	5.1	119	3.2	342.80		B5/B14		3.8	176	1.6	456.00		B5/B14
	4.1	137	2.4	428.50		B5/B14		3.4	228	1.4	514.20		B5/B14
	3.8	117	2.3	456.00		B5/B14		3.1	198	1.2	570.00		B5/B14
	3.4	152	2.1	514.20		B5/B14		2.6	264	1.0	685.60		B5/B14
	3.1	132	1.8	570.00		B5/B14							
	2.6	176	1.6	685.60	CMPU01/075	B5/B14		5.1	181	2.6	342.80	CMPU01/075	B5/B14
	2.0	198	1.2	857.00		B5/B14		4.1	206	2.0	428.50		B5/B14
								3.8	176	1.9	456.00		B5/B14
	3.8	117	2.8	456.00		B5/B14		3.4	233	1.6	514.20		B5/B14
	3.4	155	2.4	514.20		B5/B14		3.1	198	1.5	570.00		B5/B14
	3.1	132	2.2	570.00		B5/B14		2.6	264	1.2	685.60		B5/B14
	2.6	176	1.9	685.60		B5/B14		2.0	297	1.0	857.00		B5/B14
	2.0	198	1.5	857.00		B5/B14							
	3.4	168	3.7	514.20	CMPU01/090	B5/B14		4.1	223	3.1	428.50	CMPU01/090	B5/B14
	3.1	143	3.4	570.00		B5/B14		3.8	193	2.8	456.00		B5/B14
	2.6	194	2.8	685.60		B5/B14		3.4	252	2.5	514.20		B5/B14
	2.0	214	2.2	857.00		B5/B14		3.1	214	2.2	570.00		B5/B14
								2.6	290	1.8	685.60		B5/B14
								2.0	322	1.5	857.00		B5/B14

0.18

(0.25 hp)	61	22	7.1	28.50	CMPU01/050	B5/B14
	41	33	4.8	42.75		B5/B14
63B4	31	42	3.7	57.00		B5/B14
(1750 min ⁻¹)	27	49	3.2	64.28		B5/B14
	20	59	2.7	85.50		B5/B14
	20	63	2.5	85.70		B5/B14

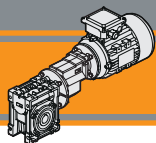


Datos técnicos

Dados técnicos

Technical data

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i			P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	sf	i		
0.25							0.25						
(0.33 hp)	61	30	5.1	28.50	CMPU01/050	B5/B14	(0.33 hp)	3.1	297	1.6	570.00	CMPU01/090	B5/B14
63C4 (1750 min ⁻¹)	41	45	3.5	42.75		B5/B14	2.6	403	1.3	685.60	B5/B14		
	31	58	2.7	57.00		B5/B14	2.0	447	1.1	857.00	B5/B14		
	27	68	2.3	64.28		B5/B14							
	20	82	2.0	85.50		B5/B14							
	20	87	1.8	85.70		B5/B14							
	15	104	1.3	114.00		B5/B14							
	14	124	1.3	128.55		B5/B14							
	12	122	1.0	142.50		B5/B14							
	10	133	1.2	171.00		B5/B14							
27	69	3.5	64.28	CMPU01/063	B5/B14	71A4 (1750 min ⁻¹)	61	45	3.4	28.50	CMPU01/050	B5/B14	
20	81	3.7	85.50		B5/B14		41	67	2.3	42.75		B5/B14	
20	88	3.3	85.70		B5/B14		31	86	1.8	57.00		B5/B14	
15	102	2.5	114.00		B5/B14		27	100	1.6	64.28		B5/B14	
14	122	2.5	128.55		B5/B14		20	122	1.3	85.50		B5/B14	
12	120	1.9	142.50		B5/B14		20	129	1.2	85.70		B5/B14	
10	137	2.3	171.00		B5/B14		15	153	0.9	114.00		B5/B14	
8.2	180	1.3	214.25		B5/B14		14	183	0.9	128.55		B5/B14	
7.7	165	1.6	228.00		B5/B14								
6.8	206	1.5	257.10		B5/B14								
6.1	191	1.2	285.00	B5/B14									
5.1	247	1.1	342.80	B5/B14									
12	124	2.8	142.50	CMPU01/070	B5/B14		61	46	4.4	28.50	CMPU01/063	B5/B14	
10	137	3.3	171.00		B5/B14	41	68	4.3	42.75	B5/B14			
8.2	186	1.8	214.25		B5/B14	31	87	3.3	57.00	B5/B14			
7.7	165	2.3	228.00		B5/B14	27	102	2.3	64.28	B5/B14			
6.8	206	2.2	257.10		B5/B14	20	120	2.5	85.50	B5/B14			
6.1	191	1.8	285.00		B5/B14	20	131	2.2	85.70	B5/B14			
5.1	247	1.5	342.80		B5/B14	15	151	1.7	114.00	B5/B14			
4.1	286	1.2	428.50		B5/B14	14	181	1.7	128.55	B5/B14			
3.8	244	1.1	456.00		B5/B14	12	178	1.3	142.50	B5/B14			
3.4	316	1.0	514.20		B5/B14	10	203	1.5	171.00	B5/B14			
8.2	186	2.2	214.25	CMPU01/075	B5/B14	8.2	267	0.9	214.25	B5/B14			
7.7	168	2.8	228.00		B5/B14	7.7	244	1.1	228.00	B5/B14			
6.8	206	2.7	257.10		B5/B14	6.8	305	1.0	257.10	B5/B14			
6.1	191	2.1	285.00		B5/B14								
5.1	252	1.9	342.80		B5/B14	20	122	3.6	85.50	CMPU01/070	B5/B14		
4.1	286	1.4	428.50		B5/B14	20	132	2.4	85.70		B5/B14		
3.8	244	1.3	456.00		B5/B14	15	153	2.5	114.00		B5/B14		
3.4	323	1.2	514.20		B5/B14	14	183	2.4	128.55		B5/B14		
3.1	274	1.1	570.00		B5/B14	12	183	1.9	142.50		B5/B14		
2.6	367	0.9	685.60		B5/B14	10	203	2.2	171.00	B5/B14			
6.1	206	3.3	285.00	CMPU01/090	B5/B14	8.2	276	1.2	214.25	B5/B14			
5.1	266	3.1	342.80		B5/B14	7.7	244	1.6	228.00	B5/B14			
4.1	309	2.2	428.50		B5/B14	6.8	305	1.5	257.10	B5/B14			
3.8	268	2.0	456.00		B5/B14	6.1	282	1.2	285.00	B5/B14			
3.4	351	1.8	514.20		B5/B14	5.1	366	1.0	342.80	B5/B14			



CMPU

Motorreductores sinfin corona con pre-reductor PU
Motoredutores de rosca sem fim com pre-estágio PU
PU Pre-stage wormgearmotors

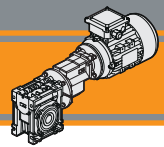
60 Hz

Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.37							0.55						
(0.50 hp)	8.2	293	2.4	214.25	CMPU01/090	B5/B14	(0.75 hp)	14	284	1.6	128.55	CMPU01/090	B5/B14
	7.7	262	3.1	228.00		B5/B14		12	289	2.5	142.50		B5/B14
71A4	6.8	321	2.4	257.10		B5/B14	71B4	10	317	3.0	171.00		B5/B14
(1750 min ⁻¹)	6.1	305	2.3	285.00		B5/B14	(1750 min ⁻¹)	8.2	435	1.6	214.25		B5/B14
	5.1	393	2.1	342.80		B5/B14		7.7	389	2.1	228.00		B5/B14
	4.1	458	1.5	428.50		B5/B14		6.8	476	1.6	257.10		B5/B14
	3.8	397	1.3	456.00		B5/B14		6.1	453	1.5	285.00		B5/B14
	3.4	519	1.2	514.20		B5/B14		5.1	585	1.4	342.80		B5/B14
	3.1	440	1.1	570.00		B5/B14		4.1	681	1.0	428.50		B5/B14
	2.6	597	0.9	685.60		B5/B14		3.8	590	0.9	456.00		B5/B14
0.55							0.75						
(0.75 hp)	61	67	2.3	28.50	CMPU01/050	B5/B14	(1.0 hp)	61	91	1.7	28.50	CMPU01/050	B5/B14
	41	99	1.6	42.75		B5/B14		41	135	1.2	42.75		B5/B14
71B4	31	127	1.2	57.00		B5/B14	80A4	31	174	0.9	57.00		B5/B14
(1750 min ⁻¹)	27	149	1.0	64.28		B5/B14	(1750 min ⁻¹)						
	20	181	0.9	85.50		B5/B14		61	93	2.2	28.50	CMPU01/063	B5/B14
	61	68	3.0	28.50	CMPU01/063	B5/B14		41	137	2.1	42.75		B5/B14
	41	101	2.9	42.75		B5/B14		31	176	1.6	57.00		B5/B14
	31	129	2.2	57.00		B5/B14		27	206	1.2	64.28		B5/B14
	27	151	1.6	64.28		B5/B14		20	243	1.2	85.50		B5/B14
	20	179	1.7	85.50		B5/B14		20	265	1.1	85.70		B5/B14
	20	194	1.5	85.70		B5/B14		41	139	2.2	42.75	CMPU01/070	B5/B14
	15	225	1.2	114.00		B5/B14		31	178	2.2	57.00		B5/B14
	14	268	1.1	128.55		B5/B14		27	209	1.2	64.28		B5/B14
	12	264	0.9	142.50		B5/B14		20	247	1.8	85.50		B5/B14
	10	302	1.0	171.00		B5/B14		20	268	1.2	85.70		B5/B14
	20	181	2.4	85.50	CMPU01/070	B5/B14		15	311	1.3	114.00	CMPU01/075	B5/B14
	20	197	1.6	85.70		B5/B14		14	371	1.2	128.55		B5/B14
	15	228	1.7	114.00		B5/B14		12	372	0.9	142.50		B5/B14
	14	272	1.6	128.55		B5/B14		10	412	1.1	171.00		B5/B14
	12	272	1.3	142.50		B5/B14		27	209	1.2	64.28		B5/B14
	10	302	1.5	171.00		B5/B14		20	250	2.1	85.50	CMPU01/075	B5/B14
	7.7	362	1.0	228.00		B5/B14		20	268	1.2	85.70		B5/B14
	6.8	454	1.0	257.10		B5/B14		15	316	1.5	114.00		B5/B14
	20	197	1.6	85.70	CMPU01/075	B5/B14		14	376	1.2	128.55		B5/B14
	15	231	2.0	114.00		B5/B14		12	372	1.1	142.50		B5/B14
	14	276	1.9	128.55		B5/B14		10	412	1.3	171.00		B5/B14
	12	272	1.5	142.50		B5/B14		7.7	503	0.9	228.00		B5/B14
	10	302	1.8	171.00		B5/B14		6.8	619	0.9	257.10		B5/B14
	8.2	410	1.0	214.25		B5/B14							
	7.7	369	1.3	228.00		B5/B14							
	6.8	454	1.2	257.10		B5/B14							
	6.1	419	1.0	285.00		B5/B14							



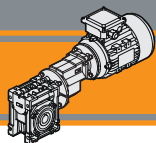
Datos técnicos

Dados técnicos

Technical data

P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i			P ₁ [kW]	n ₂ [min ⁻¹]	M ₂ [Nm]	sf	i		
0.75							1.1						
(1.0 hp)	20	257	3.4	85.50	CMPU01/090	B5/B14	(1.5 hp)	41	209	1.5	42.75	CMPU01/090	B5/B14
	20	278	1.2	85.70		B5/B14		31	272	1.5	57.00		B5/B14
80A4	15	329	2.2	114.00		B5/B14	80B4	20	377	1.5	85.50		B5/B14
(1750 min ⁻¹)	14	387	1.2	128.55		B5/B14	(1750 min ⁻¹)	15	483	1.5	114.00		B5/B14
	12	394	1.8	142.50		B5/B14		12	578	1.2	142.50		B5/B14
	10	432	2.2	171.00		B5/B14		10	634	1.5	171.00		B5/B14
	8.2	593	1.2	214.25		B5/B14		7.7	778	1.0	228.00		B5/B14
	7.7	530	1.5	228.00		B5/B14							
	6.8	650	1.2	257.10		B5/B14							
	6.1	617	1.1	285.00		B5/B14							
	5.1	797	1.0	342.80		B5/B14							

1.1						
(1.5 hp)	61	134	1.2	28.50	CMPU01/050	B5/B14
80B4	61	136	1.5	28.50	CMPU01/063	B5/B14
(1750 min ⁻¹)	41	201	1.5	42.75		B5/B14
	31	258	1.1	57.00		B5/B14
	27	302	1.0	64.28		B5/B14
	41	204	1.5	42.75	CMPU01/070	B5/B14
	31	262	1.5	57.00		B5/B14
	20	362	1.2	85.50		B5/B14
	15	456	0.9	114.00		B5/B14
	41	204	1.5	42.75	CMPU01/075	B5/B14
	31	262	1.5	57.00		B5/B14
	20	367	1.4	85.50		B5/B14
	15	463	1.0	114.00		B5/B14
	10	604	0.9	171.00		B5/B14



CMPU

Motorreductores sin fin corona con pre-reductor PU
 Motoredutores de rosca sem fim com pre-estágio PU
 PU Pre-stage wormgearmotors

60 Hz

Dimensiones

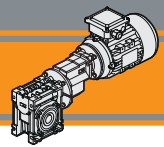
Dimensões

Dimensions

CMPU.. - CMPU..F - CMPU..FB - CMPU..FL														
	A	C	D _{H8}	E	F	G1	H	HX	I	K	L	M	N _{H8}	N1
01/050	80	120	25	144	49	92	60	36.5	50	70	85	85	70	43.5
01/063	100	144	25	174	67	112	72	36.5	63	85	104	95	80	53
01/070	110	160	28	195	64	120	80	36.5	70	90	104	115	95	57
01/075	120	172	28	205	72	120	86	36.5	75	90	112	115	95	57
01/090	140	208	35	238	74	140	103	36.5	90	100	130	130	110	67

CMPU.. - CMPU..F - CMPU..FB - CMPU..FL														
	O	P	Q	R	S	T	V	Z	KE	a	b	t	Kg	
01/050	8.5	98	64	84	7	30	40	210	M8x10(n.4)	45°	8	28.3 (27.3)	6.0	
01/063	8.5	110	80	102	8	36	50	228	M8x14(n.8)	45°	8	28.3	8.7	
01/070	9	130	91	115	9	40	55	238	M8x14(n.8)	45°	8	31.3	10.0	
01/075	11	140	93	119	10	40	60	243	M8x14(n.8)	45°	8	31.3	11.5	
01/090	13	160	102	135	11	45	70	260	M10x18(n.8)	45°	10	38.3	15.5	

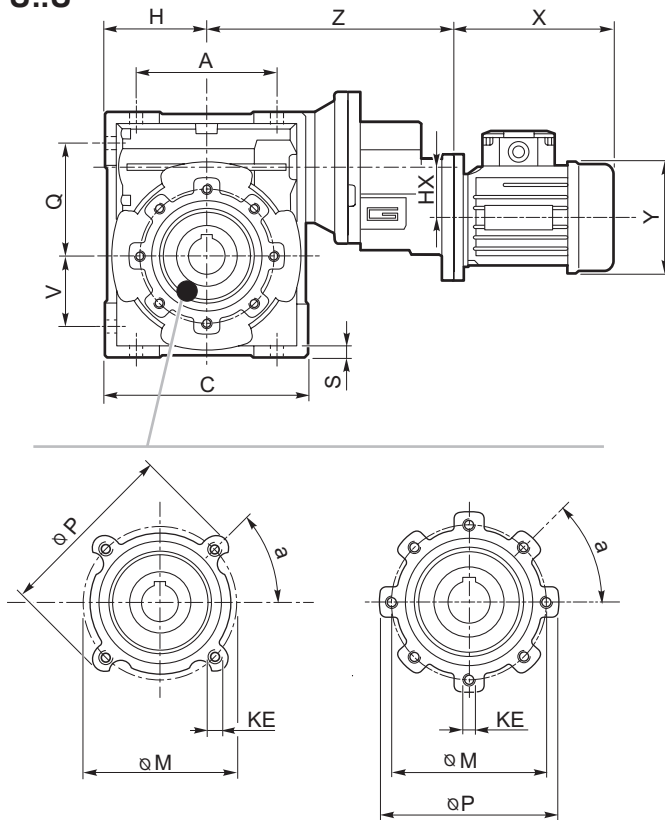
	CMPU..F								CMPU..FB								CMPU..FL							
	a1	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ	KA	KB	KC	KM	KN _{H8}	KO	KP	KA	KB	KC	KM	KN _{H8}	KO	KP	KQ
01/050	45°	90	9	5	90-110	70	11(n.4)	125	110	89	9	5	130-145	110	9.5(n.4)	160	120	9	5	90-110	70	11(n.4)	125	110
01/063	45°	82	10	6	150-160	115	11(n.4)	180	142	98	10	5	165-180	130	11(n.4)	200	112	10	6	150-160	115	11(n.4)	180	142
01/070	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/075	45°	111	13	6	165-180	130	14(n.4)	200	170	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/090	45°	111	13	6	175-190	152	14(n.4)	210	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



Dimensiones

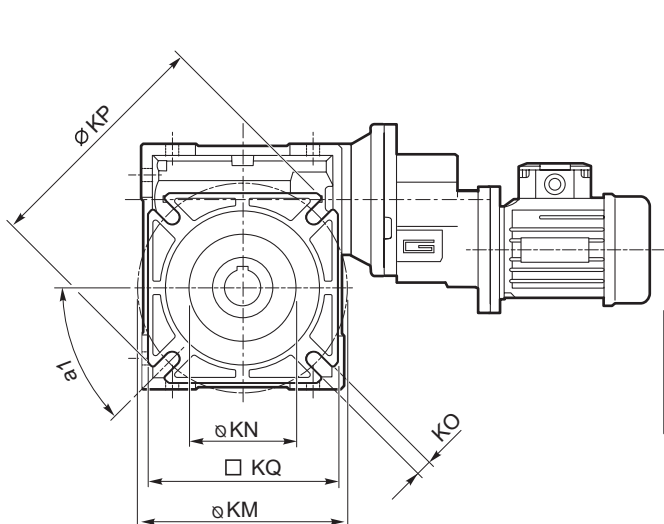
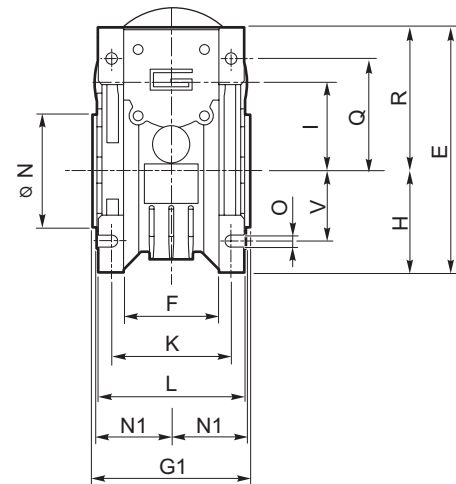
Dimensões

Dimensions

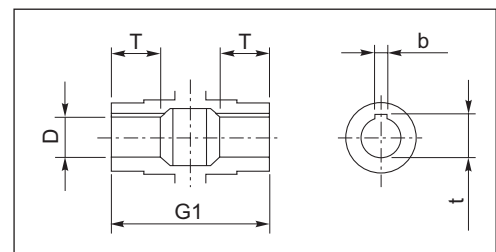
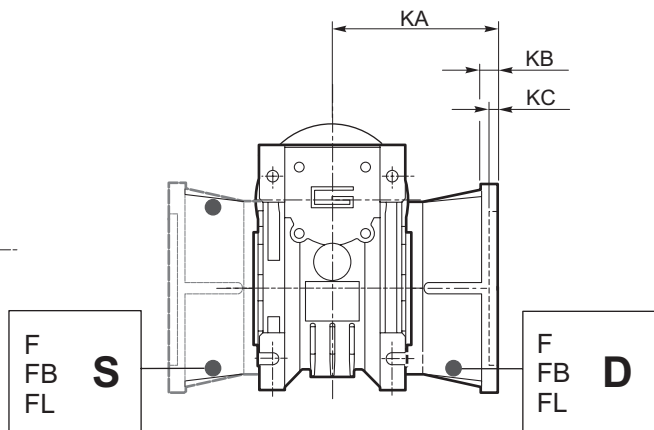
CMPU..U

..01/050

..01/063
..01/070
..01/075
..01/090

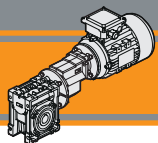


CMPU..F (..01/050 - .. 01/090)
CMPU..FB (.. 01/050 - .. 01/063)
CMPU..FL (.. 01/050 - .. 01/063)



Eje de salida hueco
Eixo saída vazado
Hollow output shaft

CMPU



CMPU

Motorreductores sinfín corona con pre-reductor PU
 Motoredutores de rosca sem fim com pre-estágio PU
 PU Pre-stage wormgearmotors

60 Hz

Accesorios

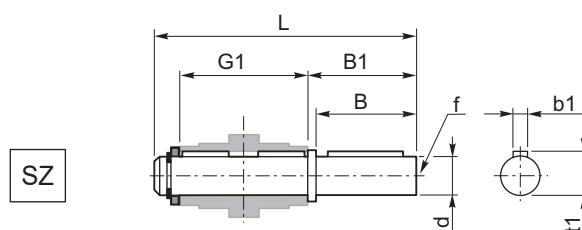
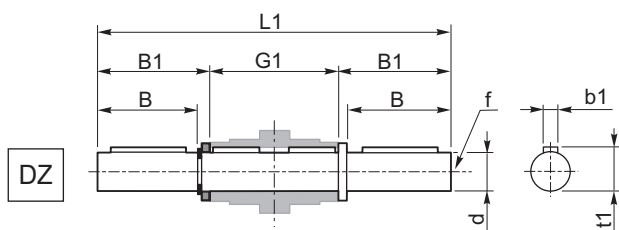
Eje de salida simple y doble

Acessórios

Eixo lenta simples e dupla

Accessories

Single and double output shaft



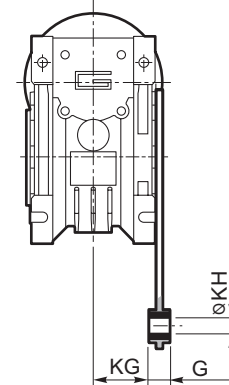
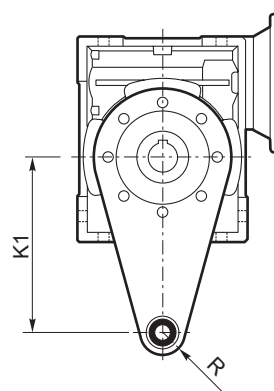
CMPU	d h7	B	B1	G1	L	L1	f	b1	t1
01/050	25	50	53.5	92	153	199	M10	8	28
01/063	25	50	53.5	112	173	219	M10	8	28
01/070	28	60	63.5	120	192	247	M10	8	31
01/075	28	60	63.5	120	192	247	M10	8	31
01/090	35	80	84.5	140	234	309	M12	10	38

Brazo de reacción

Braço de reação

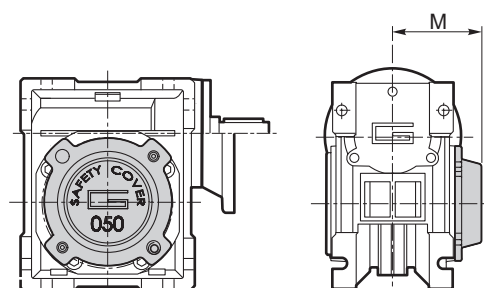
Torque arm

CMPU	K1	G	KG	KH	R
01/050	100	14	38	10	18
01/063	150	14	47.5	10	18
01/070	200	25	46.5	20	30
01/075	200	25	46.5	20	30
01/090	200	25	56.5	20	30



SC - Cubierta de seguridad / Tampa de proteção / Safety cover

CMPU	M
01/050	62.5
01/063	73
01/070	75
01/075	79
01/090	94



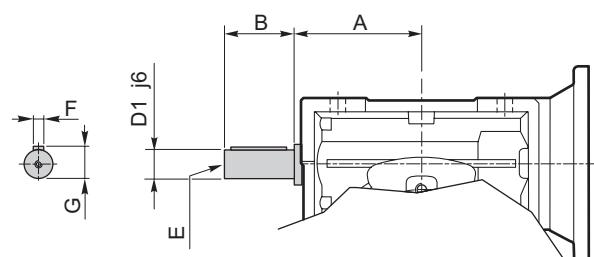
Opciones

Opções

Options

VS - Tornillo sinfín sobresaliente / Parafuso saliente / Extended input shaft

CMPU	A	B	D ₁ j6	E	F	G
01/050	64	30	14	M6	5	16
01/063	75	40	19	M6	6	21.5
01/070	84	40	19	M6	6	21.5
01/075	90	50	24	M8	8	27
01/090	108	50	24	M8	8	27



Construido bajo pedido / Fabricado sob encomenda / Built on request

Apéndice
Apêndice
Appendix

60Hz

IEC



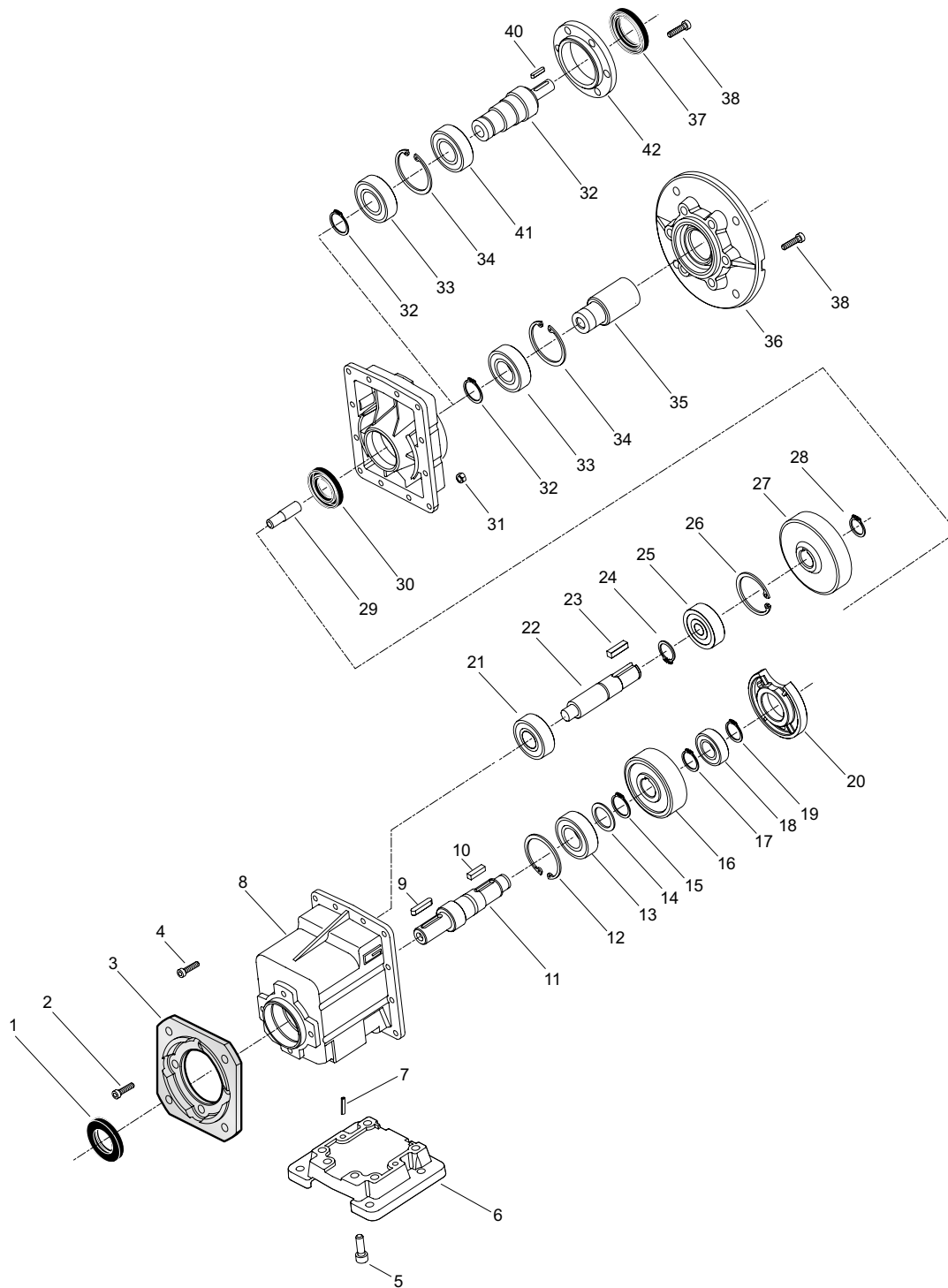
Índice	Índice	Index	Pag. Pág. Page
Listado de refacciones	<i>Listas peças de troca</i>	Spare parts list	
CMG..2	<i>CMG..2</i>	CMG..2	M2
CMG..3	<i>CMG..3</i>	CMG..3	M3
CMB..2	<i>CMB..2</i>	CMB..2	M4
CMB..3	<i>CMB..3</i>	CMB..3	M5
KFT105-FT105	<i>KFT105-FT105</i>	KFT105-FT105	M6
FT146-FT196	<i>FT146-FT196</i>	FT146-FT196	M7
ATS..2	<i>ATS..2</i>	ATS..2	M8
ATS..3	<i>ATS..3</i>	ATS..3	M9
CM026..CM130	<i>CM026..CM130</i>	CM026..CM130	M10
PU	<i>PU</i>	PU	M11
Casquillos de reducción en acero	<i>Bucha de redução em aço</i>	Metal shaft sleeves	M12

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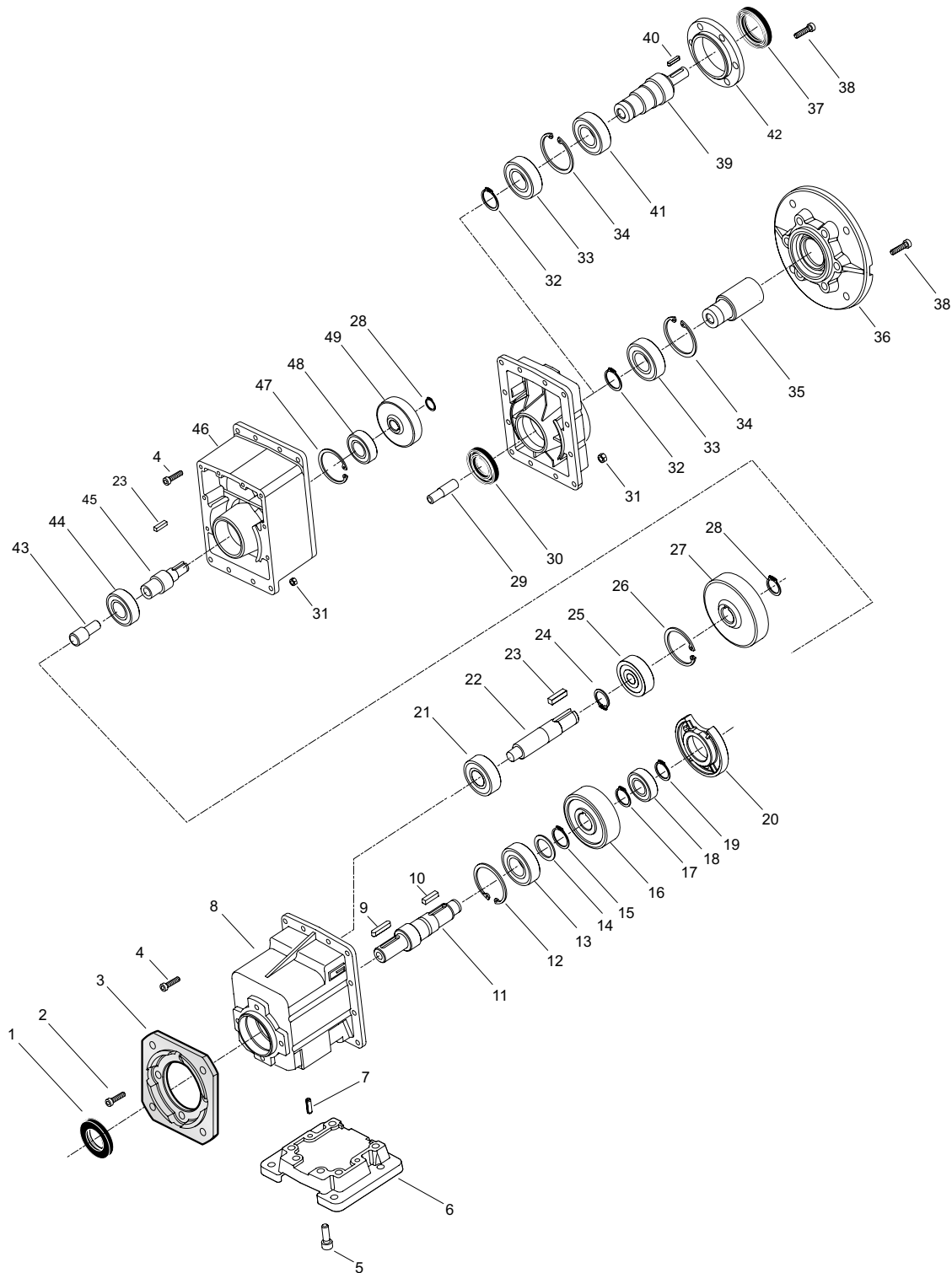
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CMG..2



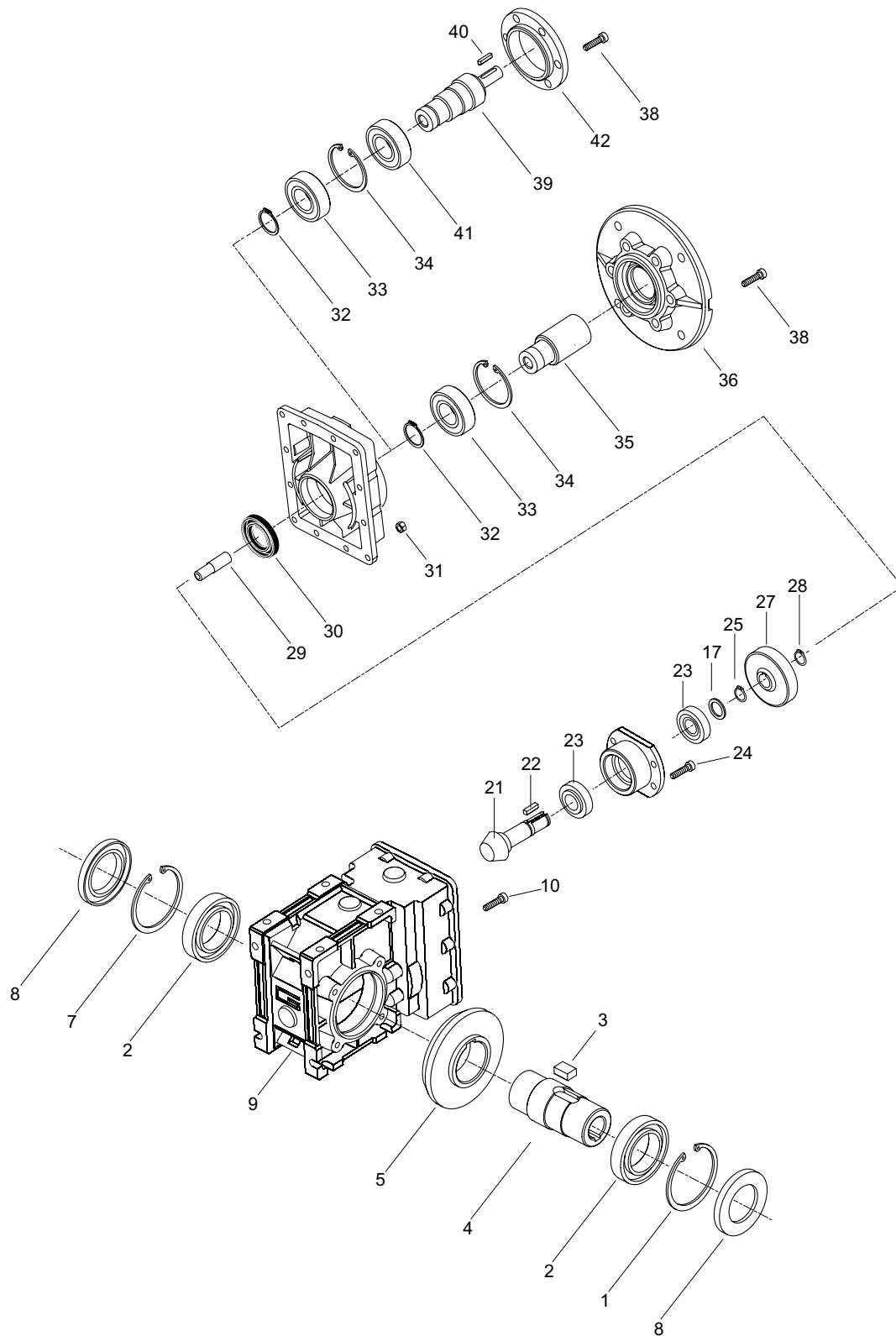
CMG	Sellos de aceite / Anéis / Oil seals		
	1	30	37
002	22/40/7	20/37/7	—
012	30/52/7	25/47/7	35/52/7
022	35/52/7	25/47/7	35/52/7
032	40/72/7	30/52/7	40/60/7
042	45/72/7	30/52/7	40/60/7

CMG..3



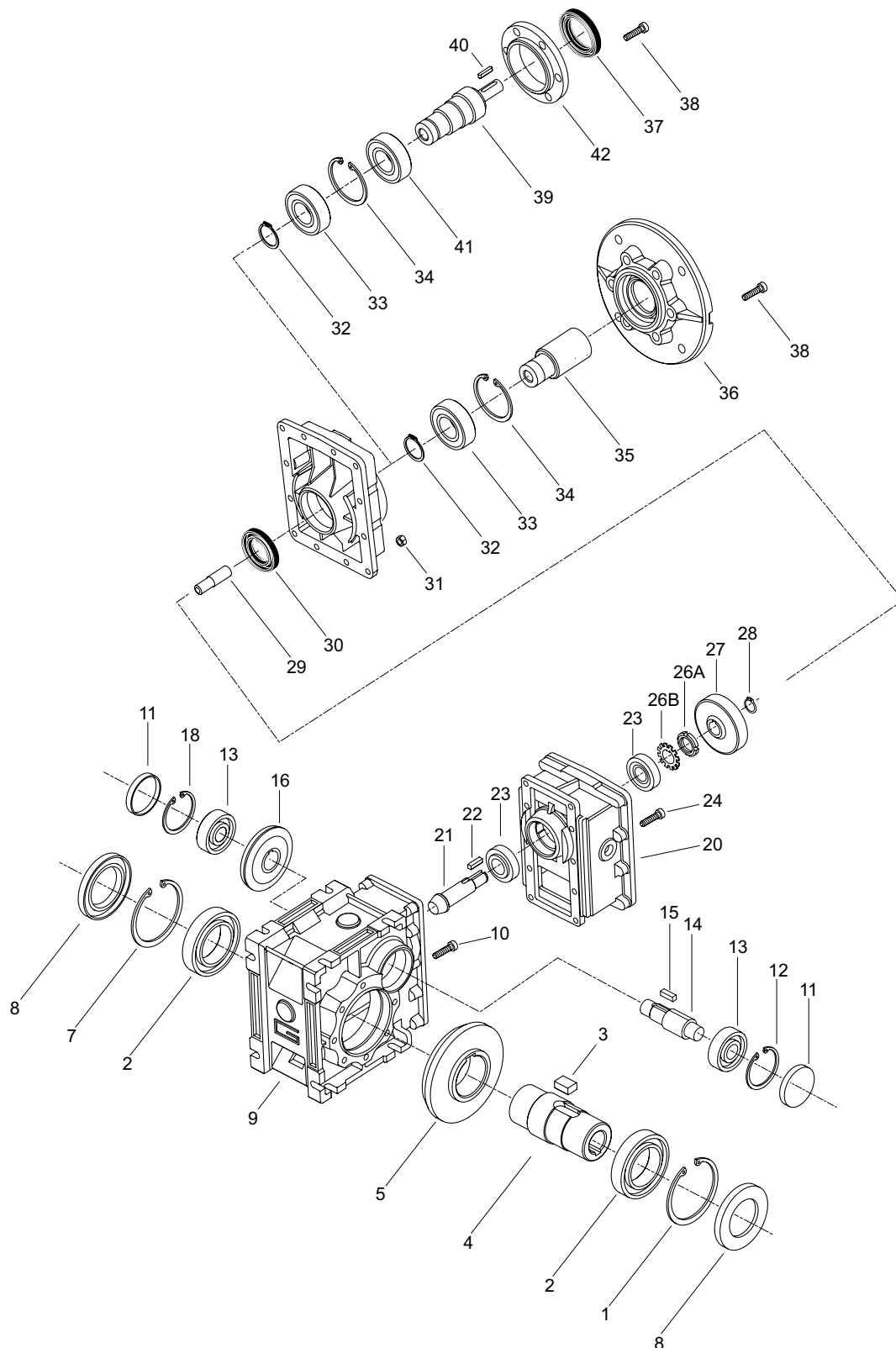
CMG	Sellos de aceite / Anéis / Oil seals		
	1	30	37
013	30/52/7	25/47/7	35/52/7
023	35/52/7	25/47/7	35/52/7
033	40/72/7	30/52/7	40/60/7
043	45/72/7	30/52/7	40/60/7

CMB ..2



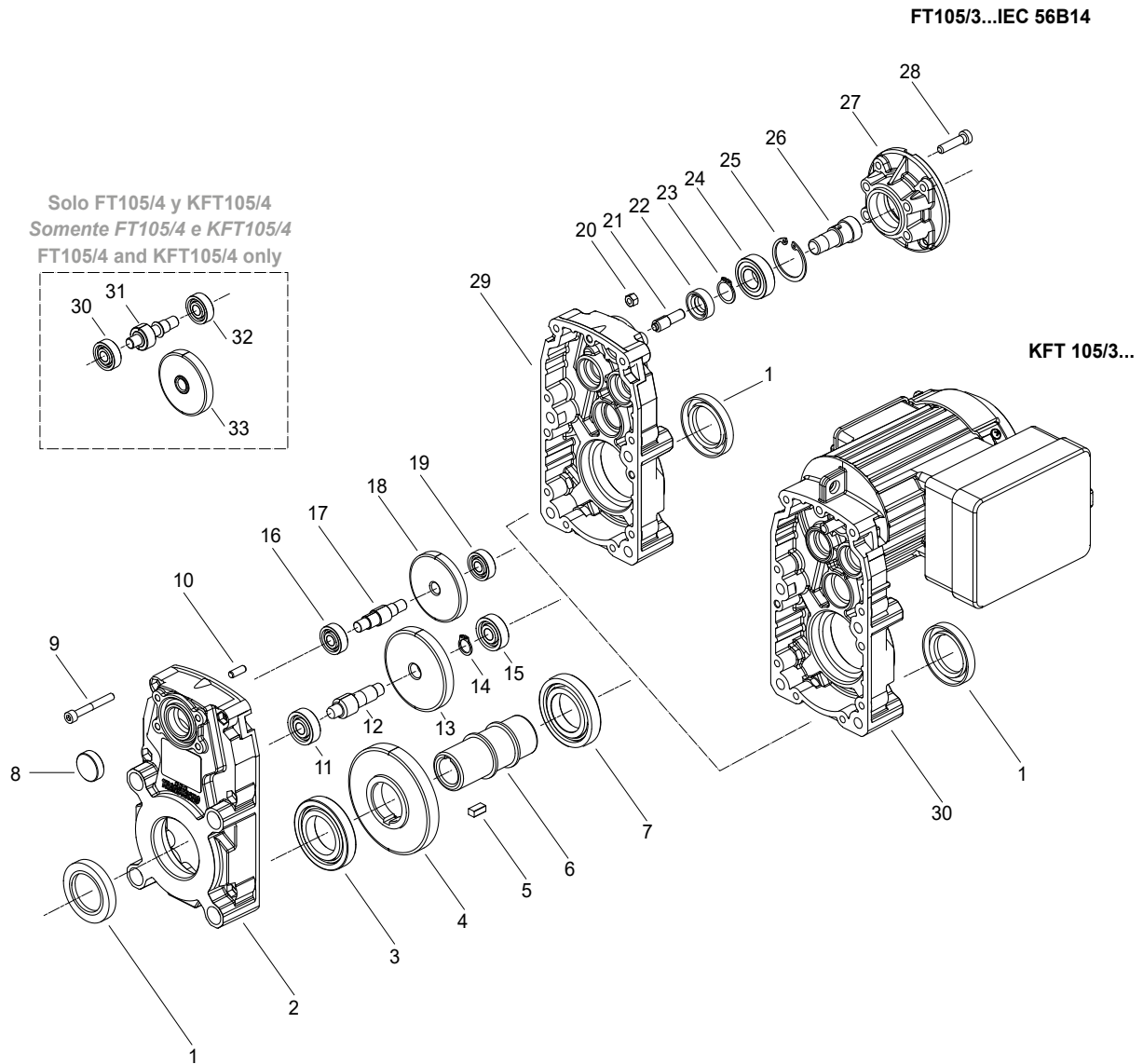
CMB	Sellos de aceite / Anéis / Oil seals	
	8	30
402	30/55/7	20/37/7
502	40/62/7	20/37/7

CMB ..3



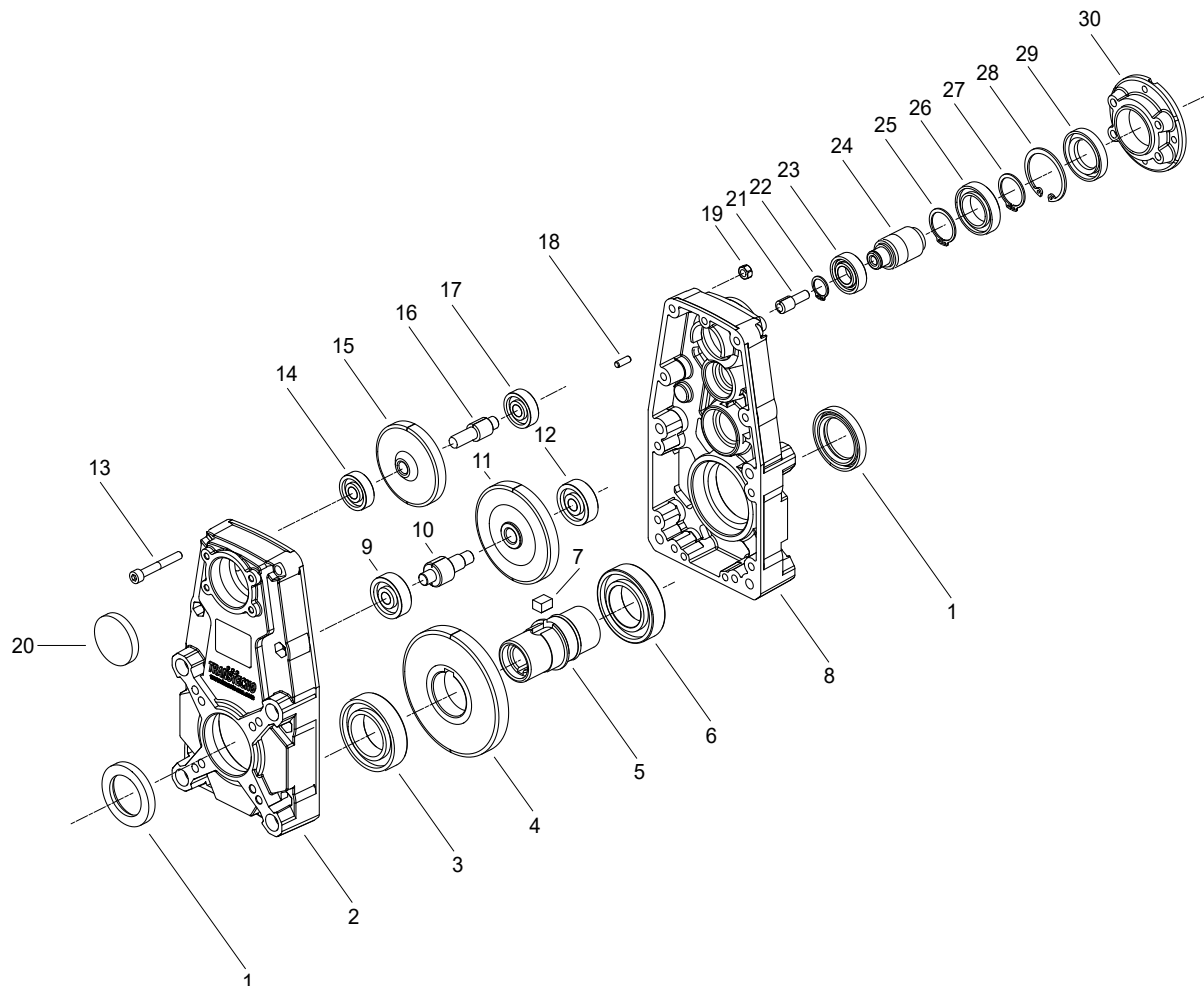
CMB	Sellos de aceite / Anéis / Oil seals			RCA
	8	30	37	11
633	45/75/8	25/47/7	35/52/7	47/7
903	55/90/10	30/52/7	40/60/7	52/7

KFT105 - FT105



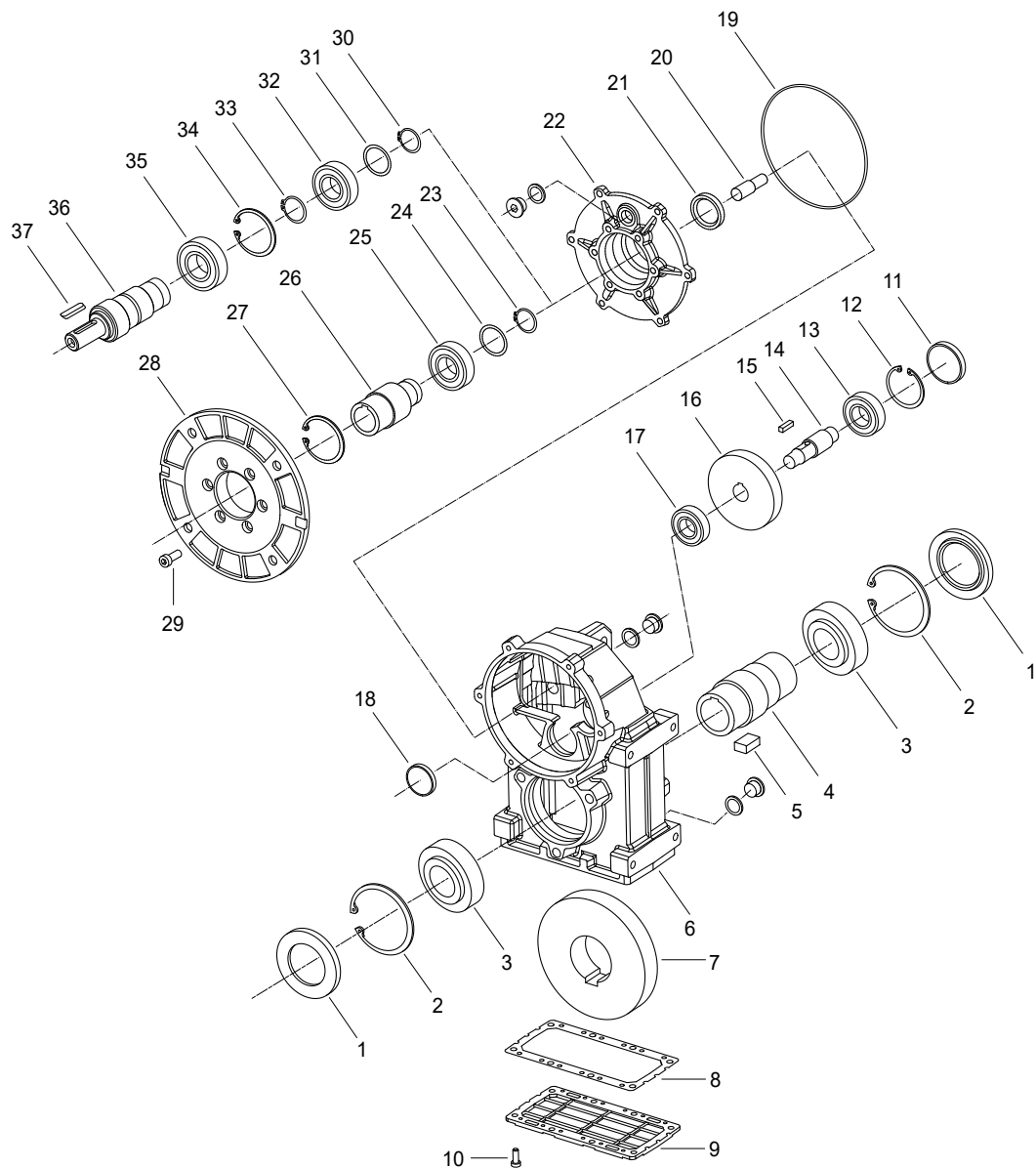
	Sellos de aceite / Anéis / Oil seals		RCA
	1	22	8
FT105	30/47/07	12/22/07	22x7
KFT105			

FT146 - FT196



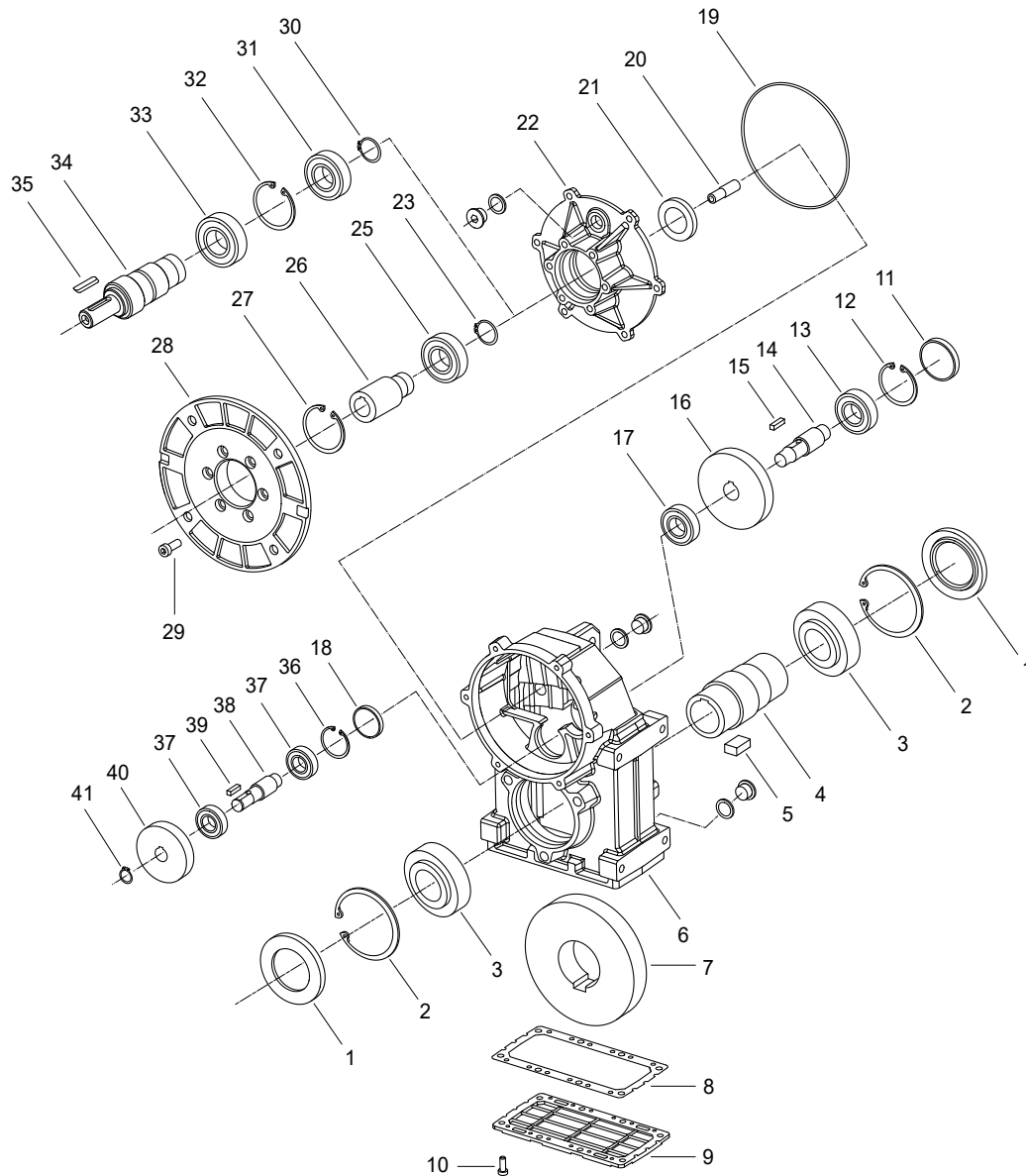
FT	Sellos de aceite / Anéis / Oil seals		RCA
	1	29	20
146	35/52/07	25/42/07	42x7
196	50/72/08	30/47/08	47x7

ATS .2



ATS	Sellos de aceite / Anéis / Oil seals		RCA
	1	21	11
902	50/80/8	30/42/7	47x7
912	60/95/8	30/42/7	47x7

ATS .3



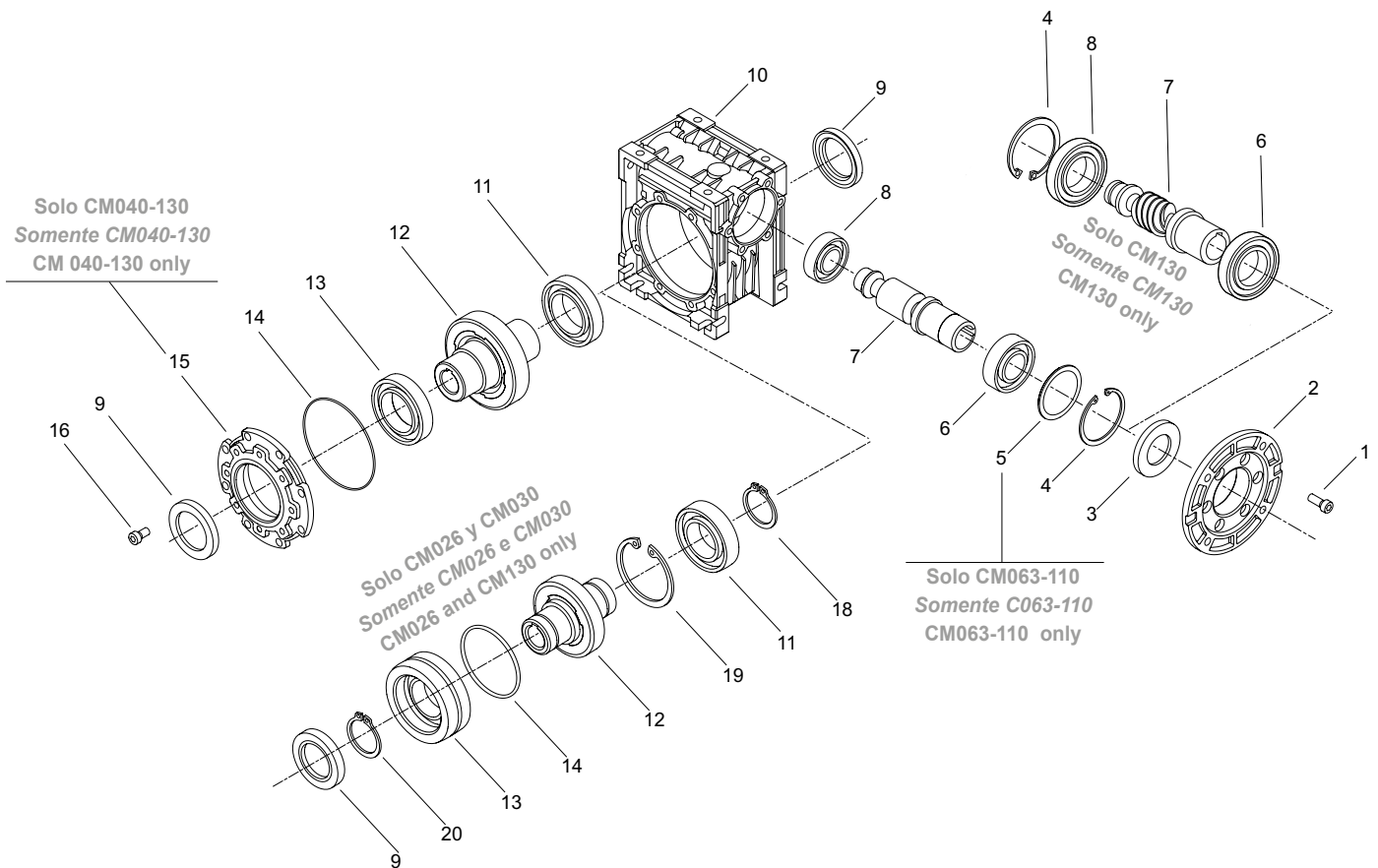
ATS	Sellos de aceite / Anéis / Oil seals		RCA
	1	21	11
903	50/80/8	25/47/7	47x7
913	60/95/8	25/47/7	47x7

Listado de refacciones

Listas peças de troca

Spare parts list

CM026..CM130



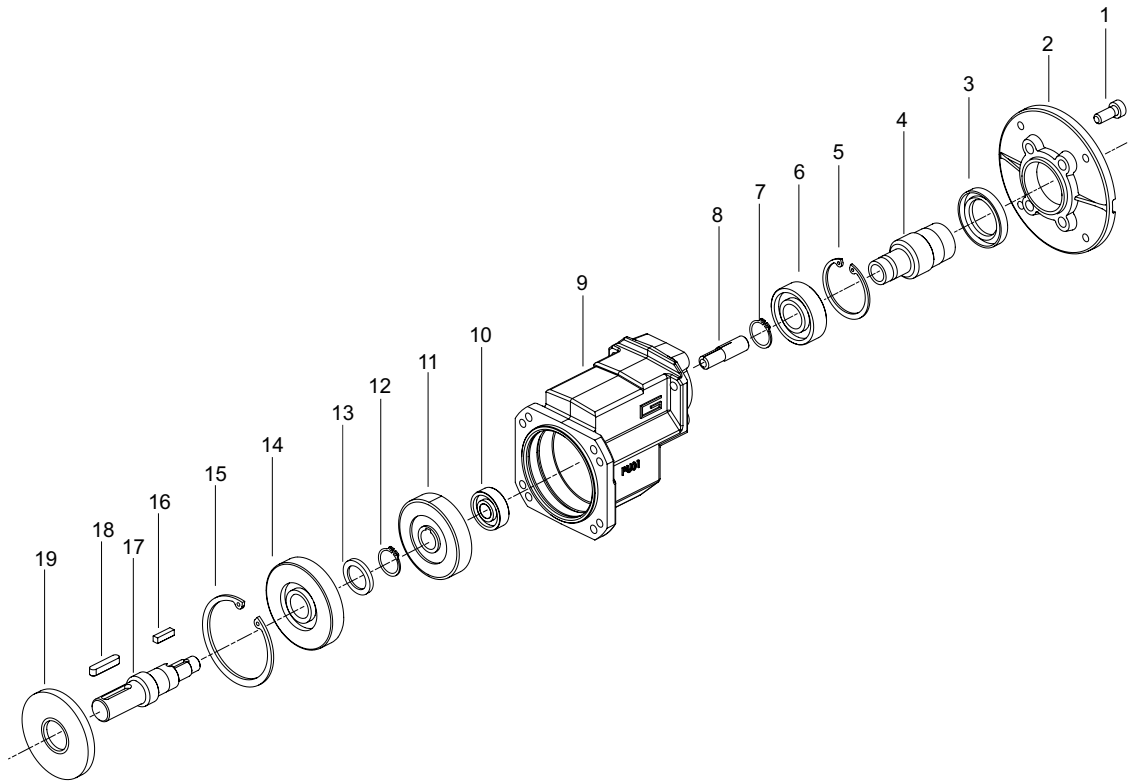
CM	Sellos de aceite / Anéis / Oil seals	
	3	9
026	15/28/7	20/32/5
030	20/37/7	25/40/7
040	25/42/7	30/47/7
050	30/47/7	40/55/7
063	35/62/7	45/65/8
070	40/68/8	45/65/8
075	40/68/7	50/72/8
090	40/68/7	60/85/8
110	50/80/8	65/85/10
130	50/65/8	70/90/10

Listado de refacciones

Listas peças de troca

Spare parts list

PU

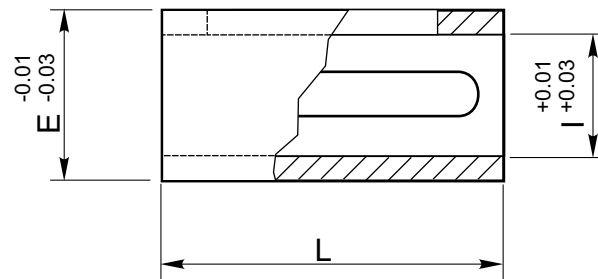


PU	Sellos de aceite / Anéis / Oil seals	
	3	19
01	30/47/7	25/72/7

Casquillos de reducción en acero

Bucha de redução em aço

Metal shaft sleeves



Dimensiones mm. / Dimensões mm. / Dimensions mm.		
E	I	L
11	9	22
14	11	28
19	14	40
24	19	50
28	24	60
38	28	70
14	9	26
19	11	35
24	14	40
28	19	40
38	24	70

Notas : los casquillos en acero se suministran con llave.

Nota: As buchas em aço são fornecidas completas com chavetas.

Note: The metal shaft sleeves are supplied complete with keys.



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